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C0.0	CIVIL PROJECT INFORMATION SHEET
C0.1	PROJECT GENERAL AND TESC NOTES
C1.0	EXISTING CONDITIONS
C2.0	TESC & DEMOLITION PLAN
C2.1	TESC DETAILS
C4.0	CIVIL SITE PLAN
C4.1	CIVIL SITE DETAILS AND NOTES
C5.0	COMBINED CIVIL PLAN
C5.1	DRAINAGE PROFILES AND DETAILS
C5.2	GRADING AND DRAINAGE DETAILS
E1	ONLINE DIAGRAM AND DETAILS
E2	ELECTRICAL SITE PLAN
L1.0	FENCE LAYOUT
L2.0	FIELD LAYOUT AND IRRIGATION
L3.0	FENCE DETAILS

PARCEL NUMBER: 242604-9013
SECTION/TOWNSHIP/RANGE: SE-24-26-04

N 1/2 OF SE 1/4 OF STR 24-26-04 LESS NE 1/4 OF NE 1/4 OF SE 1/4 OF SD SEC TOW SE 1/4 OF SE 1/4 OF STR 24-26-04 LESS POR LY SLY OF A LN BEG ON E LN SD SUBD 987.78 FT LN OF SE COR TH N 89-36-30 W 1030.53 FT N 139.76 FT TH N 86-58-00 W 283.99 FT TAP ON W LN SD SUBD 220.5 FT S OF NW COR & TERMINUS SD LN LESS CO RDS TOW E 1/2 OF SW 1/4 OF STR 24-26-04 LESS CO RDS TOW VAC NE 138TH ST LY ELY OF JUANITA DR NE & WLY OF W LN OF E 1/2 OF NE 1/4 OF SE 1/4 OF SD SEC PER ORD #11408

JURISDICTION: KING COUNTY
ZONING: R4S0
ADJACENT ZONING: R6, R4, R4PS0, R6PS0

<u>TOTAL SITE AREA:</u>	6,786,648-S.F. (155.87-ACRES)
<u>PROJECT SITE AREA:</u>	112,858-S.F. (2.59-ACRES)
<u>EST. AREA IN CRIT. AREAS:</u>	UNKNOWN S.F. (NO CHANGE PROPOSED)
<u>APPROX. AREA OF IMPACT:</u>	NONE

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CALL 48 HOURS
BEFORE YOU DIG
1-800-424-5555

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SCALE: AS SHOWN

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RECOMMENDED CONSTRUCTION SEQUENCE

1. MANDATORY PRE-CONSTRUCTION MEETING WITH OWNER AND KING COUNTY DDES.
2. FLAG OR FENCE CLEARING LIMITS.
3. POST NOTICE OF CONSTRUCTION ACTIVITY SIGN WITH NAME AND PHONE NUMBER OF ESC SUPERVISOR.
4. INSTALL CATCH BASIN PROTECTION IF REQUIRED.
5. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).
6. INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
7. CONSTRUCT SEDIMENT PONDS AND TRAPS.
8. GRADE AND STABILIZE CONSTRUCTION ROADS.
9. CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.
10. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH KING COUNTY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
11. RELOCATE SURFACE WATER CONTROLS AND EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE KING COUNTY EROSION AND SEDIMENT CONTROL STANDARDS.
12. COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING OR EQUIVALENT.
13. STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN SEVEN DAYS.
14. SEED OR SOD ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
15. UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BEST MANAGEMENT PRACTICES MAY BE REMOVED AS APPROPRIATE.

EROSION AND SEDIMENTATION CONTROL NOTES

1. APPROVAL OF THIS EROSION AND SEDIMENT CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY A CONTINUOUS LENGTH OF SURVEY TAPE (OR FENCING, IF REQUIRED) PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE CONTRACTOR/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
4. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
5. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE ANTICIPATED MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
6. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES DURING THE WET SEASON (OCT. 1 TO APRIL 30) AND OF MONTHLY REVIEWS DURING THE DRY SEASON (MAY 1 TO SEPT. 30).
7. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
8. ANY AREA NEEDING ESC MEASURES NOT REQUIRING IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
9. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN FORTY-EIGHT (48) HOURS FOLLOWING A STORM EVENT.
10. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
11. STABILIZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT. ADDITIONAL QUARRY SPALLS SHALL BE PROVIDED AND PLACED AS NECESSARY TO MAINTAIN PROPER FUNCTION OF CONSTRUCTION ENTRANCES.
12. ANY PERMANENT FLOW CONTROL FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.
13. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2 TO 3 INCHES.
14. PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE DDES INSPECTOR. THE DDES INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.

EROSION AND SEDIMENTATION CONTROL NOTES (CONT.)

15. ALL PUBLIC AND PRIVATE ROADS AFFECTED BY THE PROJECT SHALL BE CLEANED ON A REGULAR BASIS. FLUSHING WITH WATER IS NOT ALLOWED.

SUPPLEMENTAL ESC NOTES

1. TEMPORARY STOCKPILE NOTES DO NOT APPLY TO THE PROPOSED SHORT-TERM STOCKPILE AND EMBANKMENT AREAS OF THIS PROJECT. SHORT-TERM STOCKPILE AND EMBANKMENT AREAS SHALL BE SEEDDED OR OTHERWISE APPROPRIATELY STABILIZED AS NECESSARY TO MEET ESC LIMITATIONS.
2. BECAUSE THE SITE IS FLAT AND UNDERLAIN BY HIGHLY INFILTRATIVE SOILS, CONSTRUCTION OF INTERCEPTOR SWALES/DIKES WITH ROCK CHECK DAMS SHALL BE USED ONLY IF SITE STORMWATER BEGINS TO POND OR OTHERWISE DEGRADES SITE CONDITIONS SUCH THAT OTHER WORK OR SURROUNDING AREAS MIGHT BE ADVERSELY AFFECTED.
3. ROUGH EXCAVATE THE PROPOSED WATER QUALITY POND TO A BOTTOM ELEVATION OF APPROXIMATELY 520-FT, TO SERVE AS THE TEMPORARY SEDIMENT TRAP (TST). DIRECT EXCESSIVE SURFACE FLOWS TO THE TST AS NECESSARY TO MEET ALL ESC LIMITATIONS AND TO MAINTAIN AN APPROPRIATELY FUNCTIONING PROJECT SITE.
4. CLEARING LIMITS ARE DEFINED BY THE SHOWN LOCATIONS AND ALIGNMENTS OF TEMPORARY SITE FENCE AND SILT FENCE.

TEMPORARY STOCKPILE NOTES

THESE TEMPORARY STOCKPILE NOTES DO NOT APPLY TO THE PROPOSED PHASE 1, SHORT-TERM, ORGANIC MATERIAL STOCKPILE AND PROPOSED SITE EMBANKMENTS. OTHER TEMPORARY STOCKPILING MAY BE PERMITTED IF THE FOLLOWING CONDITIONS ARE MET:

1. A SIGNIFICANT AMOUNT OF MATERIAL WOULD BE REQUIRED TO BE REMOVED FROM THE SITE, AND THEN RETURNED, CAUSING IMPACTS TO PUBLIC STREETS.
2. THE MATERIAL CAN BE STORED ONSITE IN AN AREA PLANNED FOR LATER CLEARING.
3. EACH TEMPORARY STOCKPILE LOCATION (SITE) HAS A SLOPE OF 10% OR LESS.
4. THE TEMPORARY STOCKPILE WILL HAVE MINIMUM, OR APPROVED, VISUAL IMPACT ON THE SURROUNDING AREA. PROXIMITY OF PUBLIC AREAS TO TEMPORARY STOCKPILE AREA WILL DETERMINE THE SIZE AND HEIGHT PERMITTED. NO TEMPORARY STOCKPILING OVER 8 FEET WILL BE PERMITTED.
5. STOCKPILE WILL BE TEMPORARY. DURATION NOT TO EXCEED PERMITTED CONSTRUCTION ACTIVITY.
6. TEMPORARY STOCKPILE AREAS SHALL BE COVERED WITH VISQUEEN PLASTIC (MINIMUM 6 MIL) WHEN NOT IN USE. VISQUEEN IS TO BE HELD DOWN BY A MINIMUM OF 10 LB. SAND BAGS PLACED ON A 15-FOOT GRID AND ALONG THE EDGES OF THE PILE.

CLEARING AND GRADING NOTES

1. ALL CLEARING AND GRADING WORK SHALL MEET THE REQUIREMENTS OF THE 2005 EDITION OF THE KING COUNTY SURFACE WATER DESIGN MANUAL.
2. A PRECONSTRUCTION MEETING SHALL BE HELD WITH THE COUNTY CONSTRUCTION DIVISION, AND ALL REQUIRED PERMITS MUST BE APPROVED PRIOR TO START OF CONSTRUCTION.
3. TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AND PROPERLY OPERATING PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING. THESE CONTROLS MUST BE SATISFACTORILY MAINTAINED AND AUGMENTED UNTIL CONSTRUCTION AND LANDSCAPING ARE COMPLETE AND THE PROJECT SITE HAS BEEN STABILIZED.
4. DEPENDING UPON SITE AND WEATHER CONDITIONS, ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE COUNTY CONSTRUCTION INSPECTOR. WORK PERFORMED DURING THE RAINY SEASON, OCTOBER 1ST THROUGH APRIL 30TH, SHALL REQUIRE A PHASING PLAN TO LIMIT THE EXTENT OF SOIL EXPOSURE AND SHALL BE PERFORMED ACCORDING TO THE REQUIREMENTS OF AN APPROVED PROJECT WET WEATHER PLAN.
5. AT THE DISCRETION OF THE COUNTY, WORK MAY BE SUSPENDED DURING PERIODS OF INCLEMENT WEATHER TO REDUCE ACTUAL OR POTENTIAL EROSION AND/OR SEDIMENTATION.
6. WHEN WORK IS STOPPED OR COMPLETED IN AN AREA, THE COUNTY CONSTRUCTION INSPECTOR MAY REQUIRE ADDITIONAL EROSION CONTROL, INCLUDING SEEDING, OTHER STABILIZING MEASURES, AND/OR OTHER BMPS.
7. ALL WATER RUNOFF FROM ANY CONSTRUCTION SITE BEING DISCHARGED TO A PUBLIC STORMWATER SYSTEM SHALL NOT EXCEED A TURBIDITY LIMIT VALUE OF 50 NTU'S, AND SHALL ALSO MEET THE REQUIREMENTS OF THE CLEAN WATERS ACT 1972, WASHINGTON ADMINISTRATIVE CODE 173, AND RCW 90.48.
8. LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE BASED UPON INFORMATION PROVIDED BY OTHERS AND SHALL BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACTUAL EXACT LOCATIONS TO AVOID DAMAGE, INJURY, AND/OR DISTURBANCE.
9. CONTRACTOR SHALL MAINTAIN OFF-SITE STREETS CLEAN AT ALL TIMES. FLUSHING STREETS SHALL NOT BE ALLOWED. CLEANING OF IMPACTED STREETS SHALL BE VIA SWEEPING.
10. ALL GROUND COVER IS TO REMAIN UNDISTURBED OUTSIDE OF CLEARING LIMITS.
11. FLOWS FROM IMPERVIOUS SURFACES (ROOF, STREETS, DRIVEWAYS, ETC.) SHALL BE CONNECTED TO A DRAINAGE SYSTEM AS SOON AS POSSIBLE.
12. CLEARING LIMITS SHALL BE FIELD LOCATED AND FENCED WITH A MINIMUM 36-INCH HIGH ORANGE SAFETY FENCE SUPPORTED BY WOOD OR METAL POSTS.
13. TREES TO REMAIN (SEE SITE CLEARING, VEGETATION AND MITIGATION PLAN) SHALL BE MARKED WITH FLAGGING, AND FENCED AT 5 FEET OUTSIDE OF THE DRIP LINE WHEN ADJACENT TO AREAS TO BE CLEARED. SEE DETAIL ON SHEET C1.03.
14. TRUCK AND VEHICULAR WHEEL WASHES SHALL BE REQUIRED IF DEEMED NECESSARY BY THE COUNTY.
15. EXACT ALIGNMENTS AND LOCATIONS OF TESC MEASURES SHOWN ON THE PLANS MAY BE ADJUSTED IN THE FIELD TO ACCOMMODATE PHASING AND CONSTRUCTION SEQUENCE AND PROGRESS, PROVIDED THE REQUIREMENTS AND INTENT OF THIS PLAN AND APPLICABLE JURISDICTIONAL REQUIREMENTS ARE MET.

SEASONAL SUSPENSION PLAN NOTES (OCTOBER 1ST THROUGH APRIL 30TH)

THE FOLLOWING NOTES APPLY TO THE PROJECT WHEN WORK CAN NOT PROCEED AND MEET PROJECT ESC REQUIREMENTS, OR IF PROJECT WORK IS TO BE STOPPED AND NOT RESUMED UNTIL THE RAINY SEASON. WORK MAY PROCEED IN THE RAINY SEASON PROVIDED ALL ESC REQUIREMENTS ARE MET.

STABILIZATION

1. ALL UTILITY WORK IN PROGRESS SHALL BE CAPPED AND TRENCHES BACKFILLED.
2. ALL EXCAVATION OR FILL WORK SHALL CEASE, PROVIDED CUT AND FILL SLOPE GRADIENTS ARE WITHIN DESIGN GUIDELINES, IF NOT THEY WILL BE QUICKLY CORRECTED PRIOR TO CESSATION OF WORK.
3. ALL EXPOSED SOILS, INCLUDING STOCKPILES, SHALL BE STABILIZED UTILIZING A MINIMUM OF 4-INCHES OF MULCH, VISQUEEN, EROSION CONTROL BLANKETS OR A COMBINATION OF THESE METHODS AS SUITABLE FOR THE CONDITIONS.
4. OPEN EXCAVATIONS, WHERE WATER COULD ACCUMULATE OVER 18" DEPTH, SHALL BE SURROUNDED BY ADDITIONAL SAFETY FENCING IN ADDITION TO THE FENCING AROUND THE SITE PERIMETER FENCING.
5. IF ALL WORK IS SUSPENDED, TEMPORARY MEASURES SHALL BE IMPLEMENTED TO STABILIZE ALL UNCOMPLETED PORTIONS OF STRUCTURES FROM COLLAPSE OR OTHER DAMAGE.

DEWATERING

1. WATER WILL ACCUMULATE IN THE STILLING BASIN OR THE STILLING BASIN EXCAVATION.
2. WITH ONSITE SOIL STABILIZED, AND HIGHLY INFILTRATIVE, LITTLE OR NO TURBIDITY IS ANTICIPATED. THE PERMANENT OUTFALL FROM THE FILTER SWALE SYSTEM WILL BE UTILIZED.

MAINTENANCE

1. THE BMP'S SHALL BE INSPECTED WEEKLY AS WELL AS DURING AND AFTER ANY MAJOR STORM EVENT.
2. ANY NECESSARY CORRECTIONS TO THE BMP'S SHALL BE IMPLEMENTED WITHIN 24 HOURS OF THE INSPECTION.
3. IN THE EVENT THAT WATER IS LEAVING THE SITE IN EXCESS 50 NTU'S OR IN EXCESS OF 5 NTU'S ABOVE BACKGROUND TURBIDITY, OR HAVE IN EXCESS OF 10% INCREASE WHERE THE BACKGROUND EXCEEDS 50 NTU'S, IMMEDIATE ACTION SHALL BE TAKEN BY THE CONTRACTOR TO CORRECT THE CONDITION. THAT ACTION SHALL INCLUDE PUMPING FLOWS INTO A PASSIVE FILTRATION SYSTEM.

GENERAL CLEARING AND DEMOLITION NOTES

1. READ ALL NOTES AND REVIEW ENTIRE PLAN SET PRIOR TO COMMENCEMENT OF WORK ACTIVITIES.
2. ESTABLISH EXACT PROJECT BOUNDARIES PRIOR TO COMMENCEMENT OF WORK, AND RECONFIRM BOUNDARY LINES WHEN COORDINATING WITH NEIGHBORING PROPERTY OWNERS.
3. NO EXCAVATION, GRADING OR OTHER SOIL DISTURBING ACTIVITIES SHALL BE PERFORMED UNTIL THE PROJECT GRADING PERMIT HAS BEEN ISSUED AND ALL TESC MEASURES HAVE BEEN COMPLETELY INSTALLED.
4. UTILITIES SHOWN IN THIS DRAWING SET ARE BASED ON INFORMATION PROVIDED BY OTHERS. INFORMATION SHOWN SHALL BE CONSIDERED APPROXIMATE AND INCOMPLETE. CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO COMMENCEMENT OF WORK ACTIVITIES.
5. ORDINATE ALL APPLICABLE WORK ACTIVITIES WITH APPROPRIATE REPRESENTATIVES OF ADJACENT NEIGHBOR PROPERTIES. OBTAIN PERMISSIONS AS NECESSARY TO PROPERLY AND SAFELY COMPLETE WORK. PROTECT NEIGHBOR PROPERTY AND ITEMS FROM DAMAGE DUE TO PROJECT RELATED EVENTS AND ACTIVITIES.
6. PROTECT ALL TESC FEATURES, ITEMS, AND SYSTEMS FROM DAMAGE. MAINTAIN THEIR PROPER FUNCTION THROUGHOUT THE PROJECT.
7. COORDINATE STOCKPILE LOCATIONS WITH OWNER. SECURELY COVER STOCKPILES WITH PLASTIC SHEETING. SECURE ALL STOCKPILE COVERS AGAINST WIND, RAIN, AND OTHER DISTURBANCE BY THE ELEMENTS AND/OR OTHER FORCES.
8. REMOVE ALL LANDSCAPING ITEMS AND VEGETATION NOT INDICATED FOR RETENTION. REMOVE ALL OTHER MISCELLANEOUS ITEMS, INCLUDING BUT NOT LIMITED TO FENCE POSTS, WOOD, METAL, FENCING, RUBBISH, AND OTHER WASTE ITEMS.
9. MAINTAIN FULL OPERATION OF PUBLIC ROADWAYS. KEEP CLEAN AND FREE OF DEBRIS, DIRT, AND OTHER PROJECT RELATED ITEMS. SWEEP AS NEEDED TO MEET PROJECT REQUIREMENTS. COORDINATE WITH OWNER AND KING COUNTY ALL DISRUPTIONS TO SERVICES. REPAIR ALL DAMAGE TO MATCH EXISTING CONDITIONS.
10. GRADE SITE SUBGRADE TO BE UNIFORMLY AND EVENLY GRADED SUCH THAT POSITIVE AND CONTROLLED DRAINAGE IS MAINTAINED IN ACCORDANCE WITH THE PROJECT TESC (SWPP) PLAN AND THE PROJECT GRADING PLAN.
11. REMOVE FROM THE SITE AND PROPERLY DISPOSE OF ALL PROJECT WASTES, SPOILS, AND RUBBISH IN FULL COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS. OBTAIN ALL PERMITS NECESSARY FOR PROPER AND LEGAL DISPOSAL.
12. CONTRACTOR IS RESPONSIBLE FOR CONTRACTOR'S OWN QUANTITY ESTIMATES.

STRUCTURAL NOTES

1. THESE PLANS ARE APPROVED FOR STANDARD ROAD AND DRAINAGE IMPROVEMENTS ONLY. PLANS FOR STRUCTURES SUCH AS BRIDGES, VAULTS, AND RETAINING WALLS REQUIRE A SEPARATE REVIEW AND APPROVAL BY DDES PRIOR TO CONSTRUCTION (KCC 16.04. 16.70, 14.20).
2. ROCKERIES ARE CONSIDERED TO BE A METHOD OF BANK STABILIZATION AND EROSION CONTROL. ROCKERIES SHALL NOT BE CONSTRUCTED TO SERVE AS RETAINING WALLS. ALL ROCKERIES IN COUNTY ROAD RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH KCRS DRAWING NUMBERS 5-004, 5-005, 5-006, AND 5-007. ROCKERIES OUTSIDE OF ROAD RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE UNIFORM BUILDING CODE..

KING COUNTY (DDES) GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE KING COUNTY CODE (KCC), KING COUNTY ROAD STANDARDS (KCRS), KING COUNTY SURFACE WATER DESIGN MANUAL (KCSWDM) AND THE CONDITIONS OF PRELIMINARY SUBDIVISION APPROVAL. IT SHALL BE THE SOLE RESPONSIBILITY OF THE APPLICANT AND THE PROFESSIONAL CIVIL ENGINEER TO CORRECT ANY ERROR, OMISSION, OR VARIATION FROM THE ABOVE REQUIREMENTS FOUND IN THESE PLANS. ALL CORRECTIONS SHALL BE AT NO ADDITIONAL COST OR LIABILITY TO KING COUNTY.
2. THE DESIGN ELEMENTS WITHIN THESE PLANS HAVE BEEN REVIEWED ACCORDING TO THE KING COUNTY DEPARTMENT OF DEVELOPMENT AND ENVIRONMENTAL SERVICES (DDES) ENGINEERING REVIEW CHECKLIST. SOME ELEMENTS MAY HAVE BEEN OVERLOOKED OR MISSED BY THE DDES PLAN REVIEWER. ANY VARIANCE FROM ADOPTED STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY KING COUNTY PRIOR TO CONSTRUCTION.
3. APPROVAL OF THIS ROAD, GRADING, AND DRAINAGE PLAN DOES NOT CONSTITUTE AN APPROVAL OF ANY OTHER CONSTRUCTION (E.G., DOMESTIC WATER CONVEYANCE, SEWER CONVEYANCE, GAS, ELECTRICAL, ETC.).
4. BEFORE ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY, A PRECONSTRUCTION MEETING MUST BE HELD BETWEEN THE DDES LAND USE INSPECTION SECTION, THE APPLICANT, AND THE APPLICANT'S CONSTRUCTION REPRESENTATIVE.
5. A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
6. CONSTRUCTION NOISE SHALL BE LIMITED IN ACCORDANCE WITH KING COUNTY CODE (SECTION 12.88); NORMALLY, THIS IS 7A.M. TO 10 P.M. ON WEEKDAYS AND 9 A.M. TO 10 P.M. ON WEEKENDS.
7. IT SHALL BE THE APPLICANT'S/CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION EASEMENTS NECESSARY BEFORE INITIATING OFF-SITE WORK WITHIN THE ROAD RIGHT-OF-WAY.
8. FRANCHISED UTILITIES OR OTHER INSTALLATIONS THAT ARE NOT SHOWN ON THESE APPROVED PLANS SHALL NOT BE CONSTRUCTED UNLESS AN APPROVED SET OF PLANS THAT MEETS ALL REQUIREMENTS OF KCRS CHAPTER 8 IS SUBMITTED TO THE DDES LAND USE INSPECTION SECTION THREE DAYS PRIOR TO CONSTRUCTION.
9. DATUM SHALL BE 1988 UNLESS OTHERWISE APPROVED BY DDES.
10. GROUNDWATER SYSTEM CONSTRUCTION SHALL BE WITHIN A RIGHT-OF-WAY OR APPROPRIATE DRAINAGE EASEMENT, BUT NOT UNDERNEATH THE ROADWAY SECTION. ALL GROUNDWATER SYSTEMS MUST BE CONSTRUCTED IN ACCORDANCE WITH SECTION B1 3.02 OF THE APWA STANDARD SPECIFICATIONS.
11. ALL UTILITY TRENCHES SHALL BE BACKFILLED AND COMPACTED TO 95 PERCENT DENSITY.
12. ALL ROADWAY SUBGRADE SHALL BE BACKFILLED AND COMPACTED TO 95 PERCENT DENSITY (WSDOT 2-06.3).
13. OPEN CUTTING OF EXISTING ROADWAYS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY DDES AND NOTED ON THESE APPROVED PLANS. ANY OPEN CUT SHALL BE RESTORED IN ACCORDANCE WITH KCRS 8.03(B)3.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. SECTION 1-07.23, TRAFFIC CONTROL, OF THE WSDOT STANDARD SPECIFICATIONS SHALL APPLY IN ITS ENTIRETY.

DESIGNED

DRAWN

CHECKED

APPROVED

DATE

5/09/2011

5/13/2011

5/20/2011

BY

CPK

RJE

CPK

DATE

10/20/11

9/27/11

5/27/11

FINAL PERMIT SUBMITTAL

FINAL PERMIT SUBMITTAL

REVISION

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TEL: (425) 866-2670

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STATE OF WASHINGTON
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PROFESSIONAL ENGINEER
October 21, 2011

PREPARED FOR

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8251 NE Juanita Drive
Kirkland, WA 98034

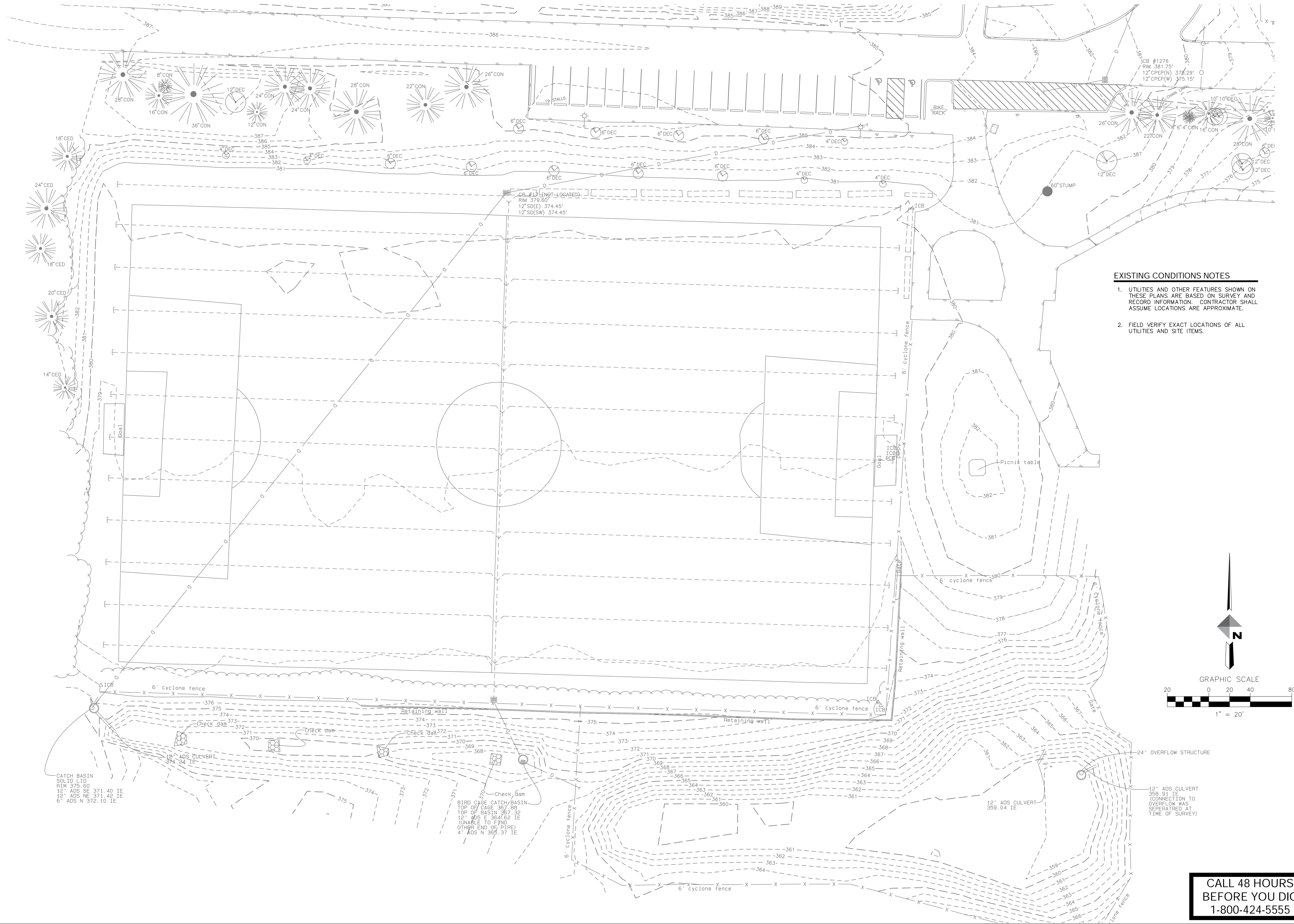
KING COUNTY AND PROJECT
GENERAL NOTES
BIG FINN HILL PARK
LACROSSE AND SOCCER FIELD CONVERSION
8106 NE 138TH ST
KIRKLAND (KING COUNTY), WA 98034

A PORTION OF
THE SE 1/4 OF
S 24 - T 26N - R 04E

SCALE: AS SHOWN
F.B.:
W.O.: 13360.01
FILE NO.: S224-18
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EXISTING CONDITIONS NOTES

1. UTILITIES AND OTHER FEATURES SHOWN ON THESE PLANS ARE BASED ON SURVEY AND RECORD INFORMATION. CONTRACTOR SHALL ASSUME LOCATIONS ARE APPROXIMATE.
2. FIELD VERIFY EXACT LOCATIONS OF ALL UTILITIES AND SITE ITEMS.

DATE		DESIGNED	5/09/2011	CPK	BY
DRAWN		5/13/2011	CPK	RJE	BY
CHECKED		5/20/2011	CPK	CPK	BY
APPROVED		5/27/11	CPK	CPK	BY
FINAL PERMIT SUBMITTAL		5/27/11	CPK	CPK	BY
C&G PERMIT SUBMITTAL		5/27/11	CPK	CPK	BY
REVISION		DATE	BY		

DOWL HKM
REDMOND, WA 98052
8420 154TH AVENUE NE.
TEL: (425) 866-2670 FAX: (425) 869-2679

CHRISTOPHER P. DOWL
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
October 21, 2011

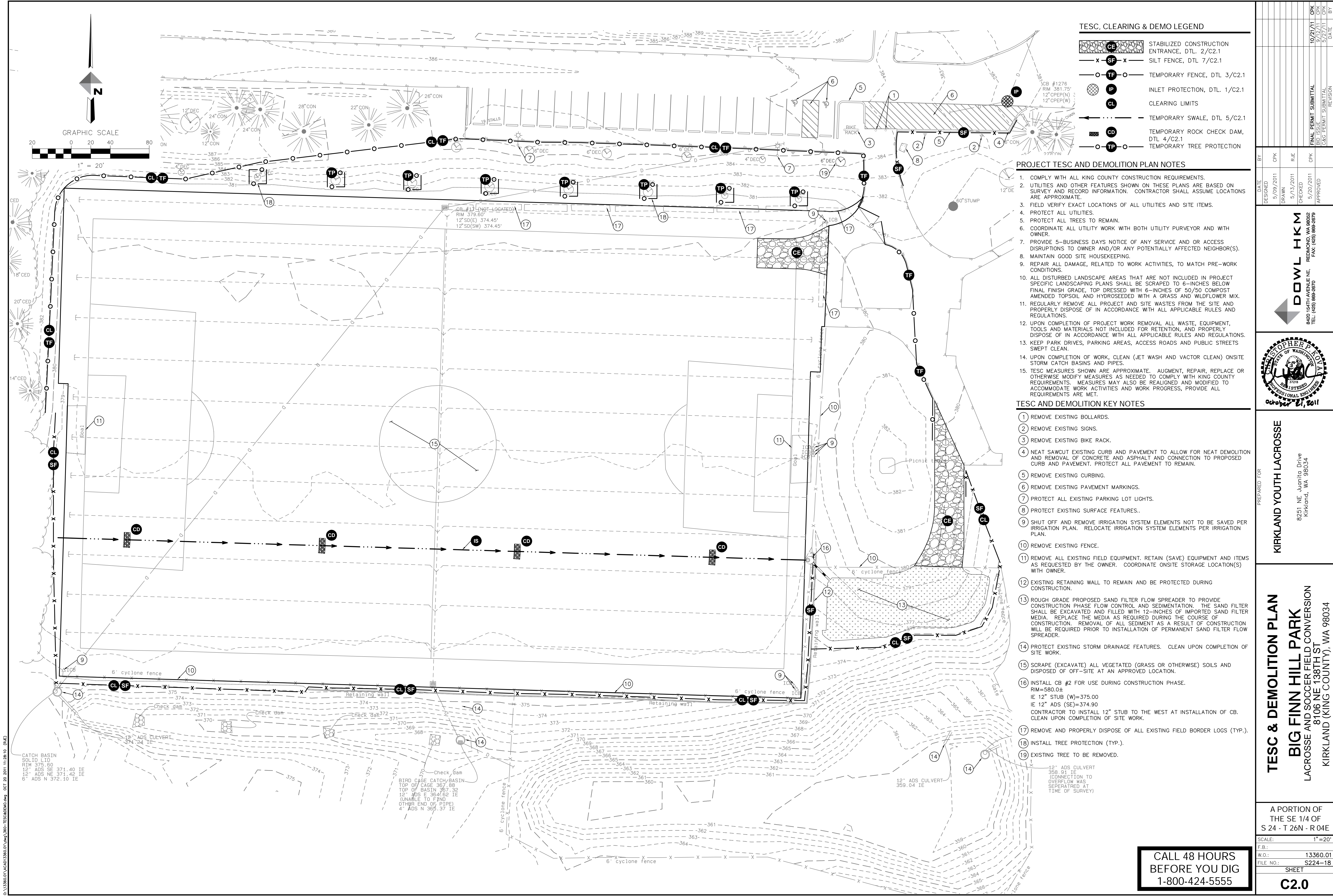
PREPARED FOR
KIRKLAND YOUTH LACROSSE
8251 NE Juanita Drive
Kirkland, WA 98034

EXISTING CONDITIONS
BIG FINN HILL PARK
LACROSSE AND SOCCER FIELD CONVERSION
8106 NE 138TH ST
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TESC, CLEARING & DEMO LEGEND

- CE STABILIZED CONSTRUCTION ENTRANCE, DTL. 2/C2.1
- X-SF-X SILT FENCE, DTL. 7/C2.1
- O-TF-O TEMPORARY FENCE, DTL. 3/C2.1
- IP INLET PROTECTION, DTL. 1/C2.1
- CL CLEARING LIMITS
- TEMPORARY SWALE, DTL. 5/C2.1
- CD TEMPORARY ROCK CHECK DAM, DTL. 4/C2.1
- O-TP-O TEMPORARY TREE PROTECTION

PROJECT TESC AND DEMOLITION PLAN NOTES

1. COMPLY WITH ALL KING COUNTY CONSTRUCTION REQUIREMENTS.
2. UTILITIES AND OTHER FEATURES SHOWN ON THESE PLANS ARE BASED ON SURVEY AND RECORD INFORMATION. CONTRACTOR SHALL ASSUME LOCATIONS ARE APPROXIMATE.
3. FIELD VERIFY EXACT LOCATIONS OF ALL UTILITIES AND SITE ITEMS.
4. PROTECT ALL UTILITIES.
5. PROTECT ALL TREES TO REMAIN.
6. COORDINATE ALL UTILITY WORK WITH BOTH UTILITY PURVEYOR AND WITH OWNER.
7. PROVIDE 5-BUSINESS DAYS NOTICE OF ANY SERVICE AND OR ACCESS DISRUPTIONS TO OWNER AND/OR ANY POTENTIALLY AFFECTED NEIGHBOR(S).
8. MAINTAIN GOOD SITE HOUSEKEEPING.
9. REPAIR ALL DAMAGE, RELATED TO WORK ACTIVITIES, TO MATCH PRE-WORK CONDITIONS.
10. ALL DISTURBED LANDSCAPE AREAS THAT ARE NOT INCLUDED IN PROJECT SPECIFIC LANDSCAPING PLANS SHALL BE SCRAPPED TO 6-INCHES BELOW FINAL FINISH GRADE, TOP DRESSED WITH 6-INCHES OF 50/50 COMPOST AMENDED TOPSOIL AND HYDROSEED WITH A GRASS AND WILDFLOWER MIX.
11. REGULARLY REMOVE ALL PROJECT AND SITE WASTES FROM THE SITE AND PROPERLY DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
12. UPON COMPLETION OF PROJECT WORK REMOVAL ALL WASTE, EQUIPMENT, TOOLS AND MATERIALS NOT INCLUDED FOR RETENTION, AND PROPERLY DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
13. KEEP PARK DRIVES, PARKING AREAS, ACCESS ROADS AND PUBLIC STREETS SWEEP CLEAN.
14. UPON COMPLETION OF WORK, CLEAN (JET WASH AND VACTOR CLEAN) ONSITE STORM CATCH BASINS AND PIPES.
15. TESC MEASURES SHOWN ARE APPROXIMATE. AUGMENT, REPAIR, REPLACE OR OTHERWISE MODIFY MEASURES AS NEEDED TO COMPLY WITH KING COUNTY REQUIREMENTS. MEASURES MAY ALSO BE REALIGNED AND MODIFIED TO ACCOMMODATE WORK ACTIVITIES AND WORK PROGRESS, PROVIDE ALL REQUIREMENTS ARE MET.

TESC AND DEMOLITION KEY NOTES

- 1 REMOVE EXISTING BOLLARDS.
- 2 REMOVE EXISTING SIGNS.
- 3 REMOVE EXISTING BIKE RACK.
- 4 NEAT SAWCUT EXISTING CURB AND PAVEMENT TO ALLOW FOR NEAT DEMOLITION AND REMOVAL OF CONCRETE AND ASPHALT AND CONNECTION TO PROPOSED CURB AND PAVEMENT. PROTECT ALL PAVEMENT TO REMAIN.
- 5 REMOVE EXISTING CURBING.
- 6 REMOVE EXISTING PAVEMENT MARKINGS.
- 7 PROTECT ALL EXISTING PARKING LOT LIGHTS.
- 8 PROTECT EXISTING SURFACE FEATURES.
- 9 SHUT OFF AND REMOVE IRRIGATION SYSTEM ELEMENTS NOT TO BE SAVED PER IRRIGATION PLAN. RELOCATE IRRIGATION SYSTEM ELEMENTS PER IRRIGATION PLAN.
- 10 REMOVE EXISTING FENCE.
- 11 REMOVE ALL EXISTING FIELD EQUIPMENT. RETAIN (SAVE) EQUIPMENT AND ITEMS AS REQUESTED BY THE OWNER. COORDINATE ONSITE STORAGE LOCATION(S) WITH OWNER.
- 12 EXISTING RETAINING WALL TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.
- 13 ROUGH GRADE PROPOSED SAND FILTER FLOW SPREADER TO PROVIDE CONSTRUCTION PHASE FLOW CONTROL AND SEDIMENTATION. THE SAND FILTER SHALL BE EXCAVATED AND FILLED WITH 12-INCHES OF IMPORTED SAND FILTER MEDIA. REPLACE THE MEDIA AS REQUIRED DURING THE COURSE OF CONSTRUCTION. REMOVAL OF ALL SEDIMENT AS A RESULT OF CONSTRUCTION WILL BE REQUIRED PRIOR TO INSTALLATION OF PERMANENT SAND FILTER FLOW SPREADER.
- 14 PROTECT EXISTING STORM DRAINAGE FEATURES. CLEAN UPON COMPLETION OF SITE WORK.
- 15 SORAPE (EXCAVATE) ALL VEGETATED (GRASS OR OTHERWISE) SOILS AND DISPOSED OF OFF-SITE AT AN APPROVED LOCATION.
- 16 INSTALL CB #2 FOR USE DURING CONSTRUCTION PHASE.
RIM=580.0+
IE 12" STUB (W)=375.00
IE 12" ADS (SE)=374.90
CONTRACTOR TO INSTALL 12" STUB TO THE WEST AT INSTALLATION OF CB. CLEAN UPON COMPLETION OF SITE WORK.
- 17 REMOVE AND PROPERLY DISPOSE OF ALL EXISTING FIELD BORDER LOGS (TYP.).
- 18 INSTALL TREE PROTECTION (TYP.).
- 19 EXISTING TREE TO BE REMOVED.

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October 21, 2011

PREPARED FOR
KIRKLAND YOUTH LACROSSE

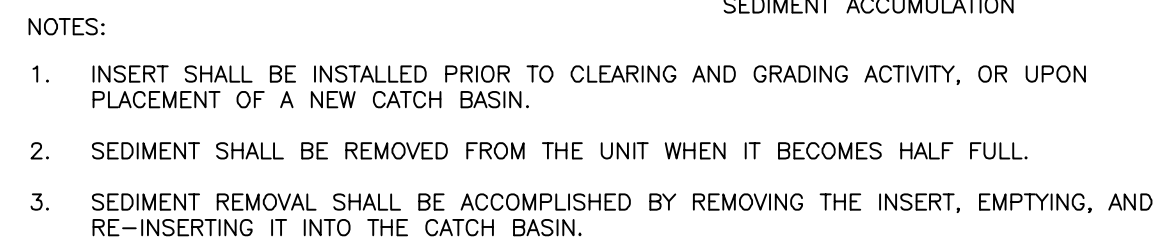
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TESC & DEMOLITION PLAN
BIG FINN HILL PARK
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[illegible]

1. CLIP FENCE TO GALVANIZED WIRE AT 5 FOOT ON-CENTER SPACING.
2. WIRE FENCE TO STEEL FENCE POST.
3. CLEARING FENCE TO BE USED AT CLEARING LIMITS UPHILL OF CONSTRUCTION LIMITS. CLEARING FENCE TO BE USED AT CLEARING LIMITS UPHILL OF CONSTRUCTION LIMITS.
4. MORE SUBSTANTIAL (CHAIN LINK) FENCING SHALL BE INSTALLED IF TEMPORARY FENCE FAILS TO PREVENT ENROACHMENTS IN TO AREAS NOT TO BE DISTURBED.

ROCK MUST COMPLETELY COVER THE BOTTOM AND SIDES OF THE DITCH

6" MIN.

24" MIN.

CROSS SECTION

2:1 SLOPES

L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION.

2" - 4" ROCK OR QUARRY SPALLS

1. ANY SEDIMENT DEPOSITION OF MORE THAN 0.5 FEET SHALL BE REMOVED SO THAT THE CHANNEL IS RESTORED TO ITS DESIGN CAPACITY.
2. THE CHANNEL SHALL BE EXAMINED FOR SIGNS OF SCOURING AND EROSION OF THE BED AND BANKS. IF SCOURING OR EROSION HAS OCCURRED, AFFECTED AREAS SHALL BE PROTECTED BY RIP-RAP OR AN EROSION CONTROL BLANKET OR NET.

V-DITCH SECTION (IS)

1. SLOPE TO MATCH TERRAIN OR AS SHOWN ON PLAN.
2. DEPTH OF DITCH VARIES WITH TERRAIN AND SLOPE. REFER TO PLAN FOR REQUIRED INVERT ELEVATIONS, IF ANY.
3. INTENDED FOR MINOR FLOWS.

TRAPEZOID SWALE SECTION (IS)

1. SLOPE TO MATCH TERRAIN OR AS SHOWN ON PLAN.
2. DEPTH OF SWALE VARIES WITH TERRAIN AND SLOPE. REFER TO PLAN FOR REQUIRED INVERT ELEVATIONS.
3. TRAPEZOIDAL SWALE IS SIZED TO CONVEY A SPECIFIC FLOW; SLOPE AND WIDTH SHOWN ON PLAN PROVIDES THE REQUIRED CAPACITY.

INTERCEPTOR DIKE (ID)

AVG. SLOPE	SPACING
3.5%	300 FT.
5-10%	200 FT.
10-25%	100 FT.
25-50%	50 FT.

SPACING DEPENDS ON SLOPE; SEE PLAN

The image contains two technical drawings of a silt fence. The left drawing is an 'ELEVATION VIEW' showing a cross-section of the fence. It features a grid pattern representing the geotextile, with a section on the left labeled 'WHEN SPECIFIED IN THE CONTRACT, INSTALL BACKUP SUPPORT FOR THE GEOTEXTILE (SEE STD. SPEC. 8-01.3(9)A)'. A label points to the grid with the text 'GEOTEXTILE FOR TEMPORARY SILT FENCE (SEE STD. SPEC. 9-33.2, TABLE 6)'. Dimensions at the bottom indicate '6" MAX. SPACING WITHOUT BACKUP SUPPORT' and '10" MAX. SPACING WITH BACKUP SUPPORT'. The right drawing is a 'SIDE VIEW' showing the fence's profile. It includes a 'POST (SEE STD. SPEC. 8-01.3(9)A)' at the top, 'BACKFILL WITH NATIVE SOIL AND COMPACT' behind the fence, and a '4" FLOW' arrow indicating water passing through. A '4" BURY GEOTEXTILE IN TRENCH' dimension is shown at the base. The right side of the drawing is partially cut off by the page edge.

Diagram illustrating the structure of a weir, showing various layers and dimensions:

- FLAT BOTTOM**
- 1.5' MIN.** (Minimum thickness of the flat bottom layer)
- 3'-4" WASHED GRAVEL**
- 2'-4" ROCK**
- RIPRAP**
- GEOTEXTILE**
- 4' MIN.** (Minimum width of the top of the weir)
- 1' MIN. OVERFLOW**
- 1' MIN.** (Minimum thickness of the riprap layer)
- 3.5'-5'** (Height of the weir structure)
- 30:1 V. MAX.** (Maximum vertical to horizontal slope ratio)

NOTE: TRAP MAY BE FORMED BY BERM OR BY PARTIAL OR COMPLETE EXCAVATION

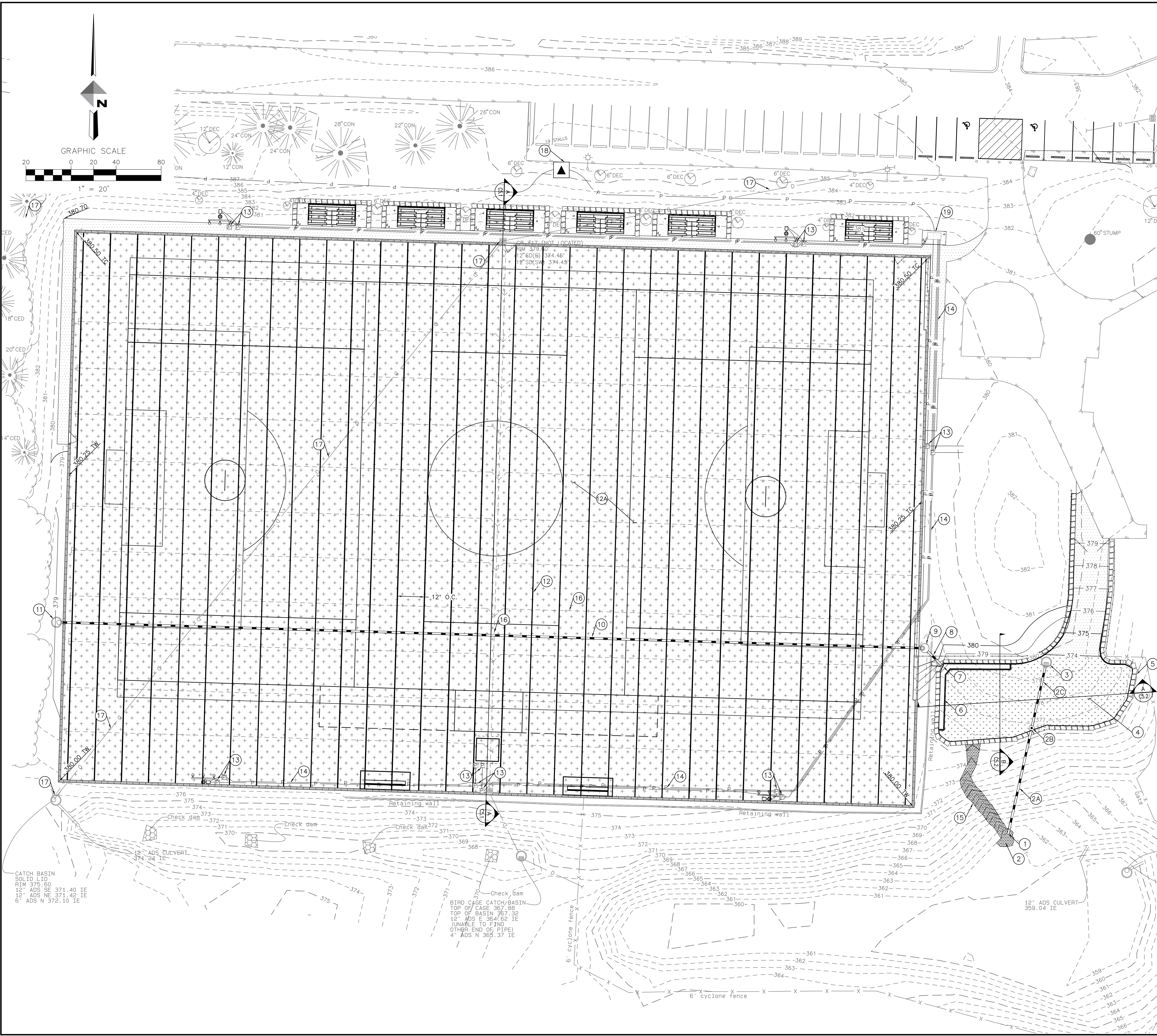
DISCHARGE TO STABILIZE CONVEYANCE, OUTLET OR LEVEL SPREADER

SURFACE AREA DETERMINED AT TOP OF WEIR

1. SEDIMENT SHALL BE REMOVED FROM THE TRAP WHEN IT REACHES 1 FOOT IN DEPTH.
2. ANY DAMAGE TO THE TRAP EMBANKMENTS FOR SLOPES SHALL BE REPAIRED.
3. TRAP PUTLET MAY NOT BE NEEDED ON THIS PROJECT.

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PROJECT CIVIL SITE PLAN KEY NOTES

- 1 NEW STORM SYSTEM OUTLET. 12-INCH ADS N-12 (OR APPROVED EQUAL). INSTALL DEBRIS BARRIER AND PIPE ANCHOR. QUARRY SPALL ARMORING
- 2 (ENERGY DISSIPATER) AT OUTLET. ASSUME 10-FT X 10-FT X 1-FT DEEP PAD ON MIRAFI 140N GEOFABRIC (OR APPROVED EQUAL).
- 2A NEW STORM OUTFALL PIPE. SOLID WALL 12-INCH ADS N-12 (OR APPROVED EQUAL). INSTALL PIPE ANCHORS AT BOTH ENDS AND ON AT MIDPOINT OF SLOPED SEGMENT. HAND COMPACT TRENCH WITH NATIVE MATERIAL. COVER TRENCH WITH ONE CONTINUOUS ROLLED STRIP OF JUTE MAT. ANCHOR ON BOTH SIDES WITH WOOD STAKES AT 5-FT O.C. HYDROSEED AS SOON AS POSSIBLE. SEE PROFILE ON SHEET C5.1.
- 2B NEW PIPE CONNECTIONS - PIPE VERTICAL BEND, AND SWEEP WYE. EXTEND WYE UP TO 18-INCHES ABOVE SAND FILTER AND CAP. SEE PROFILE ON SHEET C5.1.
- 2C NEW SAND FILTER UNDERDRAIN COLLECTOR PIPE - 12-INCH PERFORATED ADS N-12 (OR APPROVED EQUAL). SEE PROFILE ON SHEET C5.1.
- 3 CB-001 - NEW OVERFLOW TYPE-2 48-INCH CATCH BASIN WITH BIRDCAGE GRATE PER KCSWDM 2009, FIGURE 5.3.1.C. SEE PROFILE ON SHEET C5.1.
- 4 NEW STORMWATER SAND FILTER PER KCSWDM 2009. SEE SHEETS C5.1 AND C5.2. INCLUDE INSTALLATION OF COMPLETE IMPERMEABLE LINER UNDER SAND.
- 5 NEW ROCKERY BOUNDARY FOR SAND FILTER. SEE SHEETS C5.1 AND C5.2.
- 6 NEW SAND FILTER SYSTEM FLOW SPREADER PER KCSWDM 2009. SEE SHEET C5.2.
- 7 NEW UNDERDRAIN PIPE OUTFALL TO SAND FILTER. 12-INCH ADS N-12 (OR APPROVED EQUAL). SEE PROFILE ON SHEET C5.1.
- 8 NEW UNDERDRAIN PIPE TO SAND FILTER. 12-INCH ADS N-12 (OR APPROVED EQUAL). SEE PROFILE ON SHEET C5.1.
- 9 CB-002 - NEW TYPE-2 48-INCH CATCH BASIN WITH SOLID LOCKING LID. SEE PROFILE ON SHEET C5.1.
- 10 NEW FIELD UNDERDRAIN COLLECTOR PIPE. PERFORATED 12-INCH ADS N-12 (OR APPROVED EQUAL). SEE PROFILE AND DETAIL ON SHEET C5.1.
- 11 CB-003 - NEW TYPE-2 54-INCH CATCH BASIN WITH SOLID LOCKING LID AND CONTROL STRUCTURE. SEE PROFILE ON SHEET C5.1.
- 12 NEW ENKA TURF SUBDRAINAGE MAT, SPACING AT 12-FT O.C. TO FIELD COLLECTOR UNDERDRAIN PIPE. SLOPE TO COLLECTOR PIPE AT MINIMUM SLOPE OF 1%. SEE SHEET C5.1.
- 2A COVER ENTIRE SUBGRADE WITH MIRAFI 140N GEOFABRIC (OR APPROVED EQUAL) WITHIN FIELD CURBS AND FIELD WALLS. GEOFABRIC COVERAGE SHALL BE CONTINUOUS AND COMPLETE WITH MINIMUM 1-FT OVERLAPS. SEE SHEET C5.2.
- 13 NEW ELECTRICAL JUNCTION BOX, SET FLUSH TO FINISH GRADE. SEE ELECTRICAL PLANS.
- 14 NEW POWER AND TELECOM CONDUIT(S) PER ELECTRICAL PLANS.
- 15 NEW STORM SAND FILTER OVERFLOW CHANNEL - 1-FT DEEP X 3-FT WIDE EXCAVATED TRENCH. LINE WITH ANCHORED MIRAFI 140N GEOFABRIC (OR APPROVED EQUAL). OVERLAP UPPER PORTION OVER NEXT LOWER. ARMOR WITH QUARRY SPALLS AND HYDROSEED CHANNEL AND ADJACENT DISTURBED AREAS.
- 16 REMOVE EXISTING UNDERDRAIN SYSTEM, ONLY WHERE NECESSARY TO COMPLETE CONSTRUCTION OF PROPOSED PROJECT FIELD IMPROVEMENTS. REMAINING UNDERDRAIN ITEMS TO BE LEFT IN PLACE.
- 17 PROTECT EXISTING DRAINAGE CONVEYANCE LINE. RESTORE AND REPAIR ANY AND ALL DAMAGE RESULTING FROM OR RELATED TO PROJECT WORK ACTIVITIES. ADD NEW RISERS TO CATCH BASINS TO BRING TO PROPOSED GRADE.
- 18 INSTALL UTILITY PAD MOUNTED TRANSFORMER PER ELECTRICAL PLAN.
- 19 INSTALL POWER PANEL ON CONCRETE PAD PER ELECTRICAL PLAN.

PROJECT GENERAL CIVIL NOTES

1. ALL EXISTING FEATURES AND UTILITIES ON THE PLANS ARE BASED ON INFORMATION PROVIDED BY OTHERS. CONTRACTOR ASSUMES FULL RESPONSIBILITY TO FIELD VERIFY EXACT LOCATIONS OF ANY AND ALL FEATURES AND UTILITIES IN PROJECT WORK AREAS.
2. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS TO IMPORT AND EXPORT MATERIALS TO COMPLETE THE WORK AND TO BRING TO DESIGN GRADE, AND ALL QUANTITY ESTIMATES TO ACHIEVE SUCH RESULTS.
3. ALL EXCESS MATERIALS SHALL BE REMOVED FROM SITE AND PROPERLY DISPOSED. ALL DISTURBED NON-PAVED AREAS SHALL BE COVERED WITH 6-INCHES OF WELL BLENDED 50/50 MIXTURE OF WSDOT TOPSOIL TYPE B (WSDOT 9-14.1(2)) AND WSDOT COMPOST (WSDOT 9-14.4(8)). FINE GRADE BY HAND, REPLANT AND/OR SEED PER OWNER. COVER ALL AREAS NOT PLANTED OR SEEDED WITH WSDOT WOOD STRAND MULCH (WSDOT 9-14.4(4)).
4. CLEAN ALL CONCRETE SURFACES IN WORK AREAS. LEAVE NO PAINT, PAVING RESIDUE, OR OTHER WASTES OR MARKS ON PROJECT CONCRETE AND/OR SURFACES.
5. CONDUIT ALIGNMENTS SHOULD BE INSTALLED AS SHOWN ON THIS CIVIL PLAN, WITH REFERENCE TO THE ELECTRICAL PLAN FOR ROUTING AND ELECTRICAL DESIGN.

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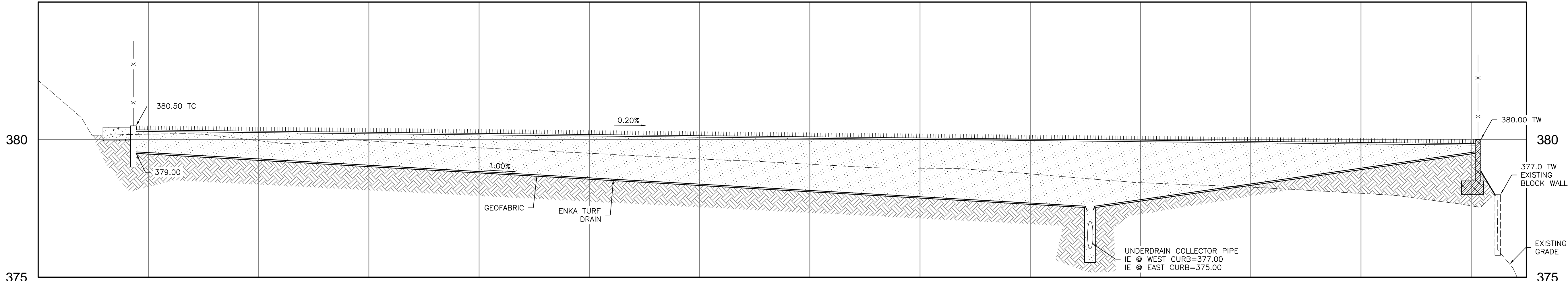
COMBINED CIVIL PLAN
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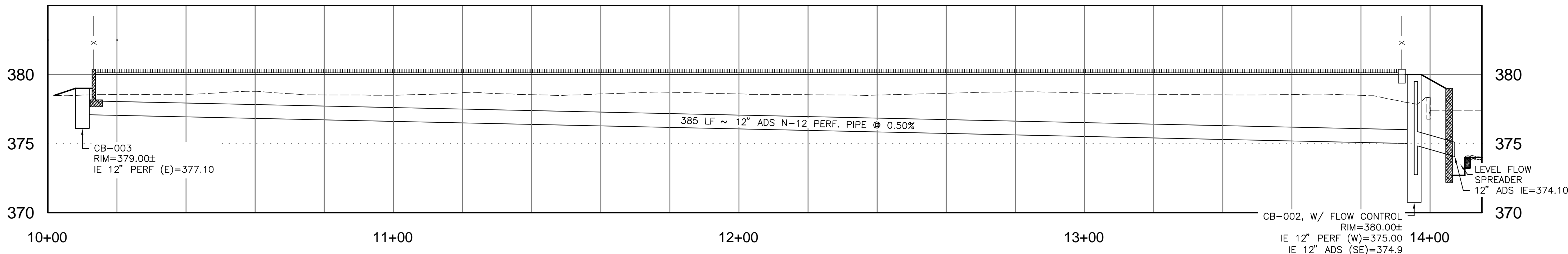
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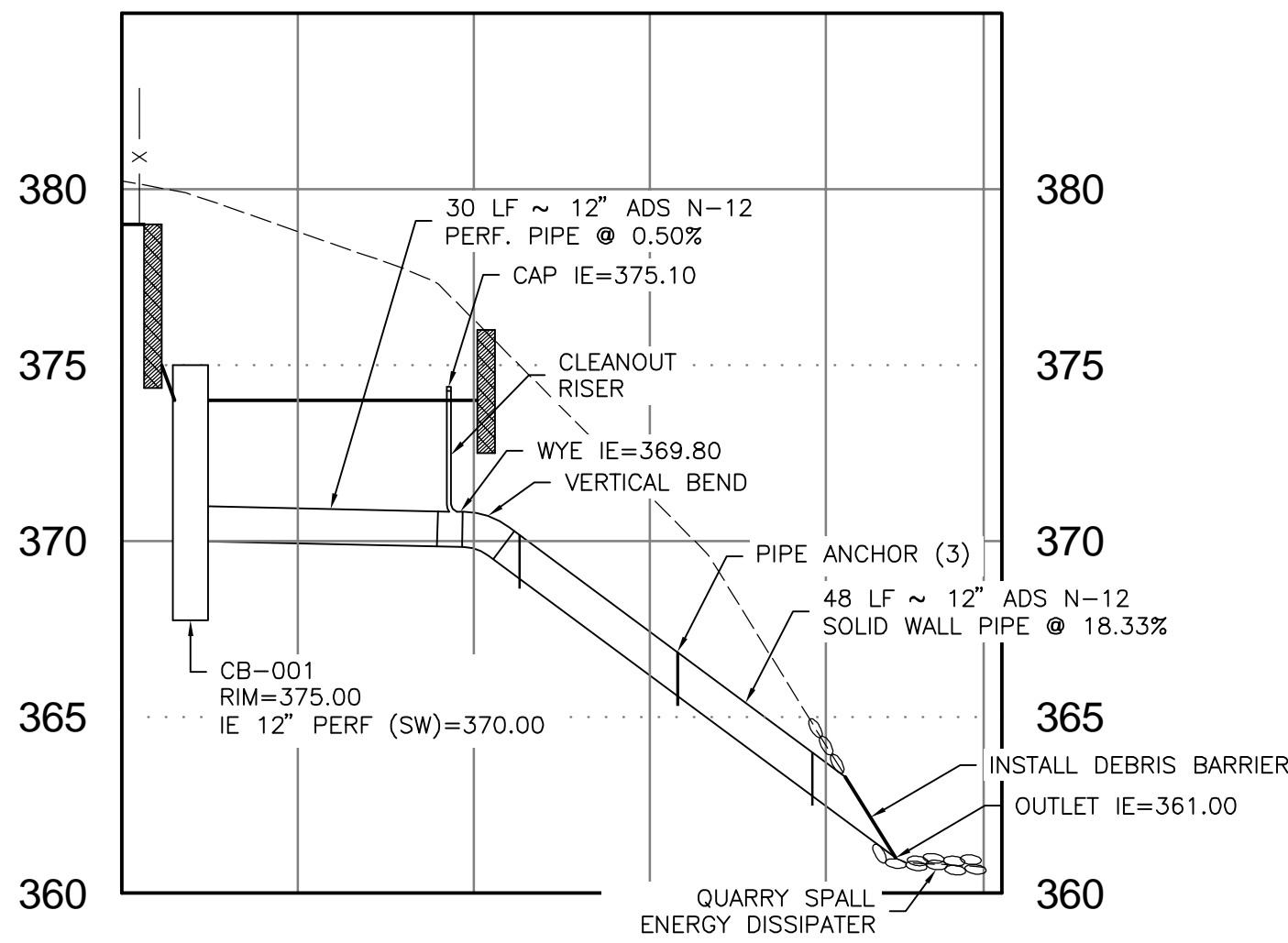
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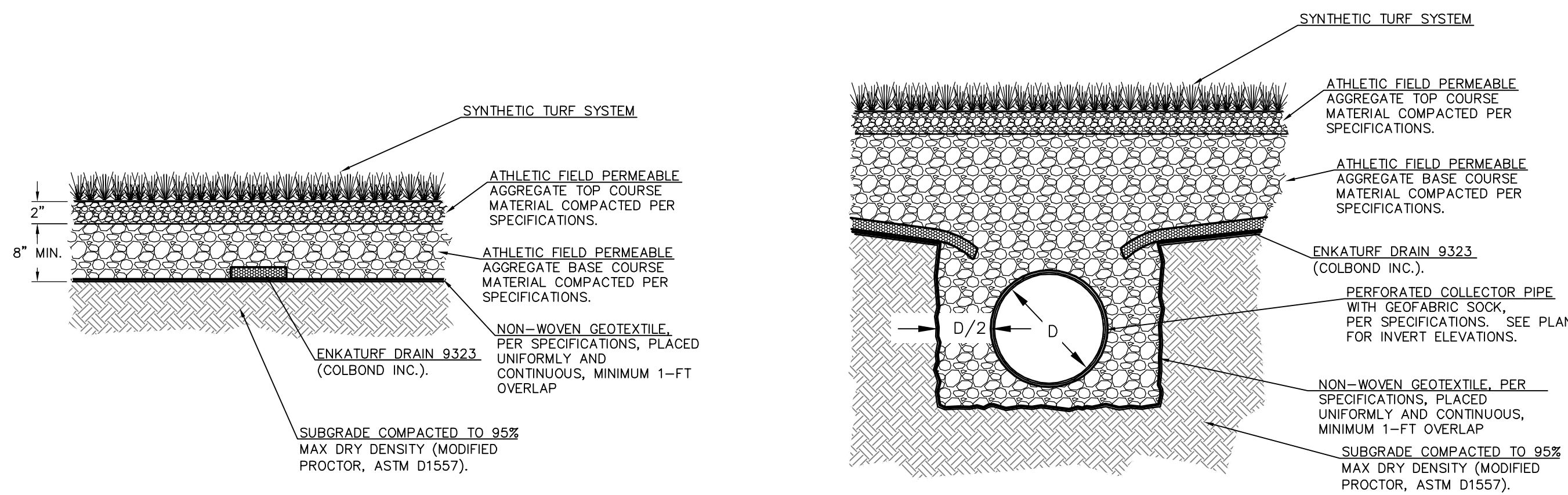
1 FIELD SECTION A-A
C5.1 SCALE: 1"=10' H, 1"=2' V



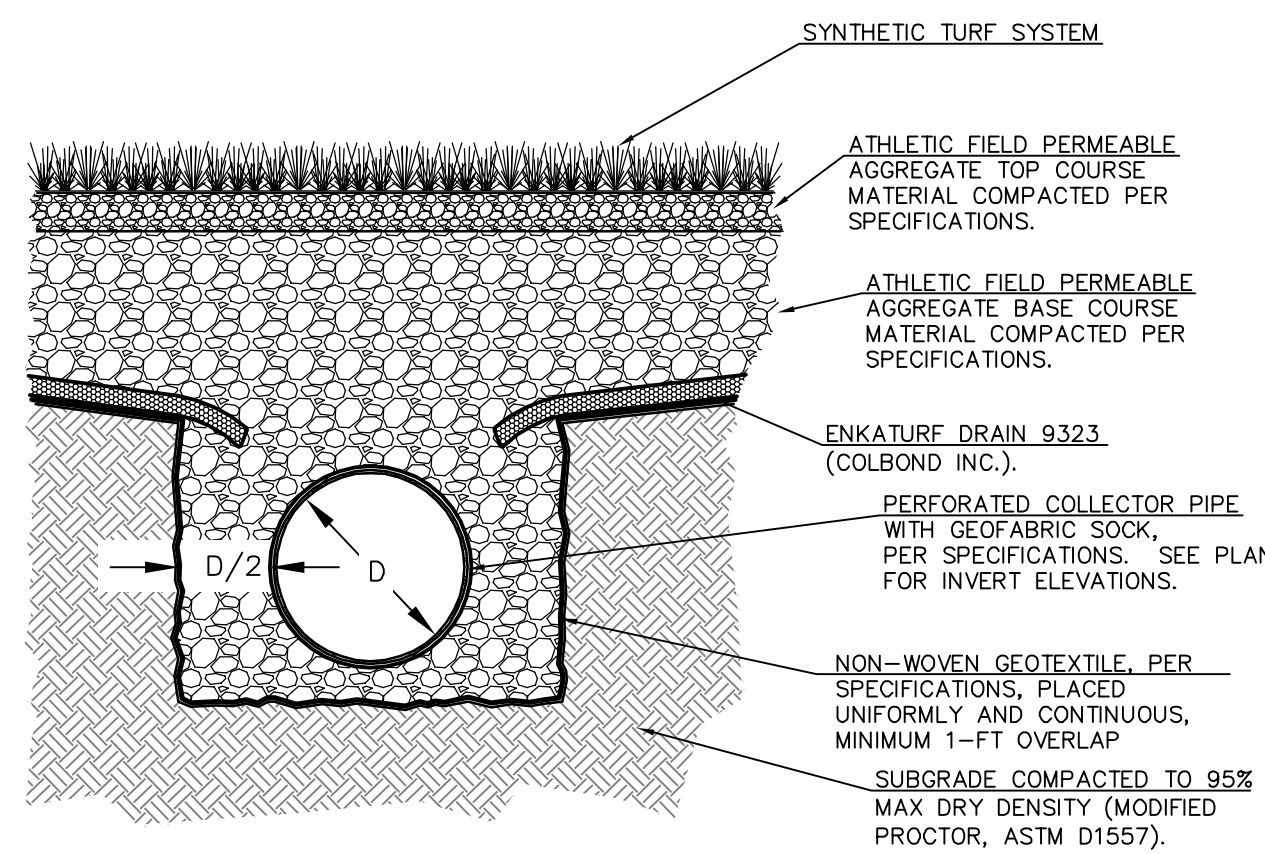
2 STORM DRAINAGE PROFILE
C5.1 SCALE: 1"=20' H, 1"=5' V



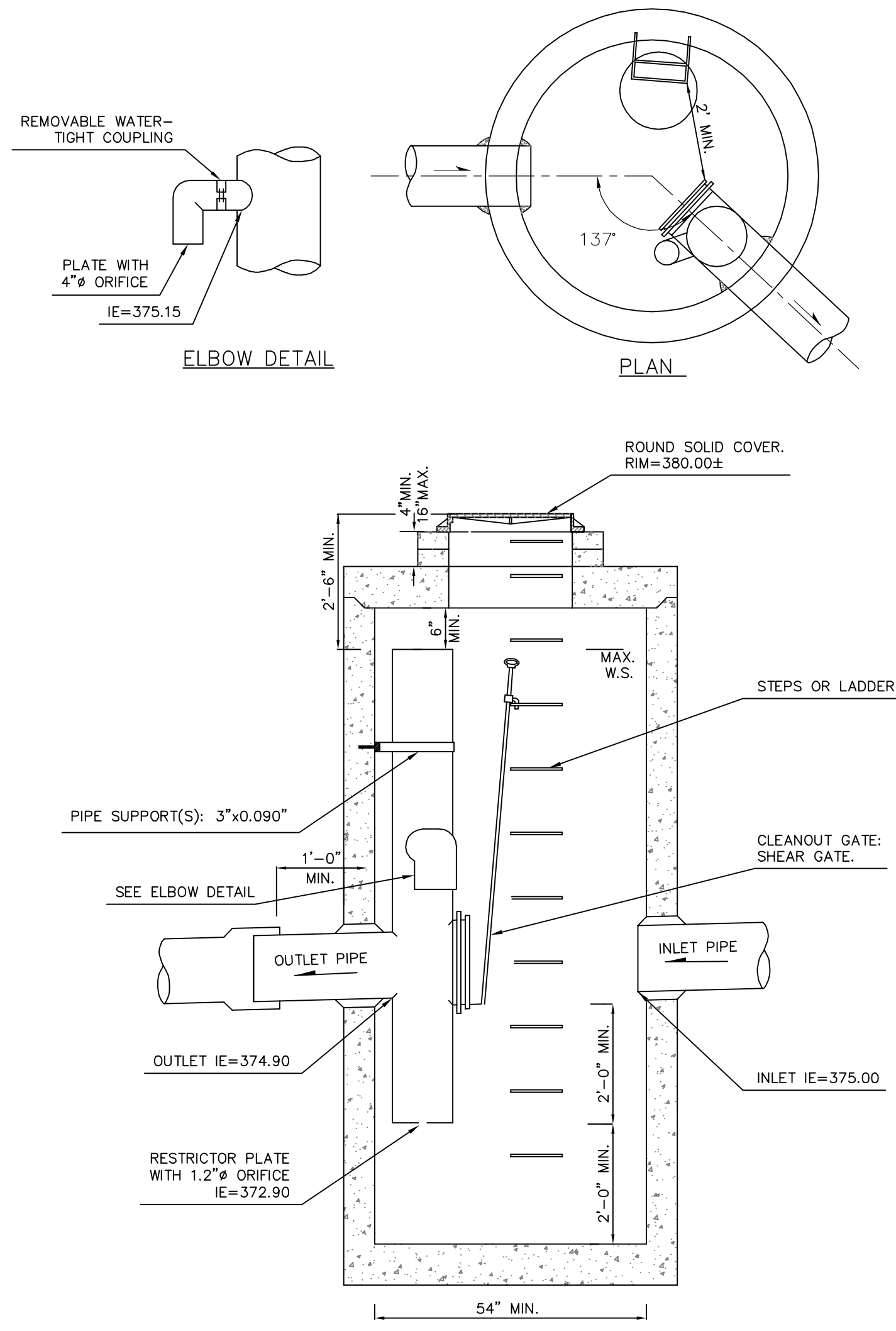
3 STORM DRAINAGE PROFILE
C5.1 SCALE: 1"=20' H, 1"=5' V



4 SYNTHETIC TURF BASE SECTION WITH ENKA TURF DRAIN
C5.1 NTS



5 FIELD COLLECTOR DRAIN SECTION DETAIL
C5.1 NTS



6 CB-002, TYPE -2 54\"/>

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TEL: (425) 869-2670

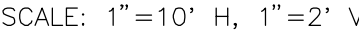
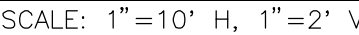


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DRAINAGE PROFILES & DETAILS
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- | ROCKERY MATERIALS | | |
|-------------------|----------------------|------------------------|
| ROCK SIZE | APPROX. WEIGHT (LBS) | APPROX. DIAM. (INCHES) |
| 1 MAN | 50 – 200 | 12" – 18" |
| 2 MAN | 200 – 700 | 12" – 28" |
| 3 MAN | 700 – 2,000 | 28" – 36" |
| 4 MAN | 2,000 – 4,000 | 36" – 48" |
| 5 MAN | 4,000 – 6,000 | 48" – 54" |
| 6 MAN | 6,000 – 8,000 | 54" – 60" |

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CAG PERMIT REVISION		5/27/11	CPK
		DATE	BY



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CHRISTOPHER P. KOVALLY
 STATE OF WASHINGTON
 PROFESSIONAL ENGINEER
 No. 12578
 October 21, 2011

KIRKLAND YOUTH LACROSSE

8251 NE Juanita Drive
 Kirkland, WA 98034

GRADING & DRAINAGE DETAILS

BIG FINN HILL PARK

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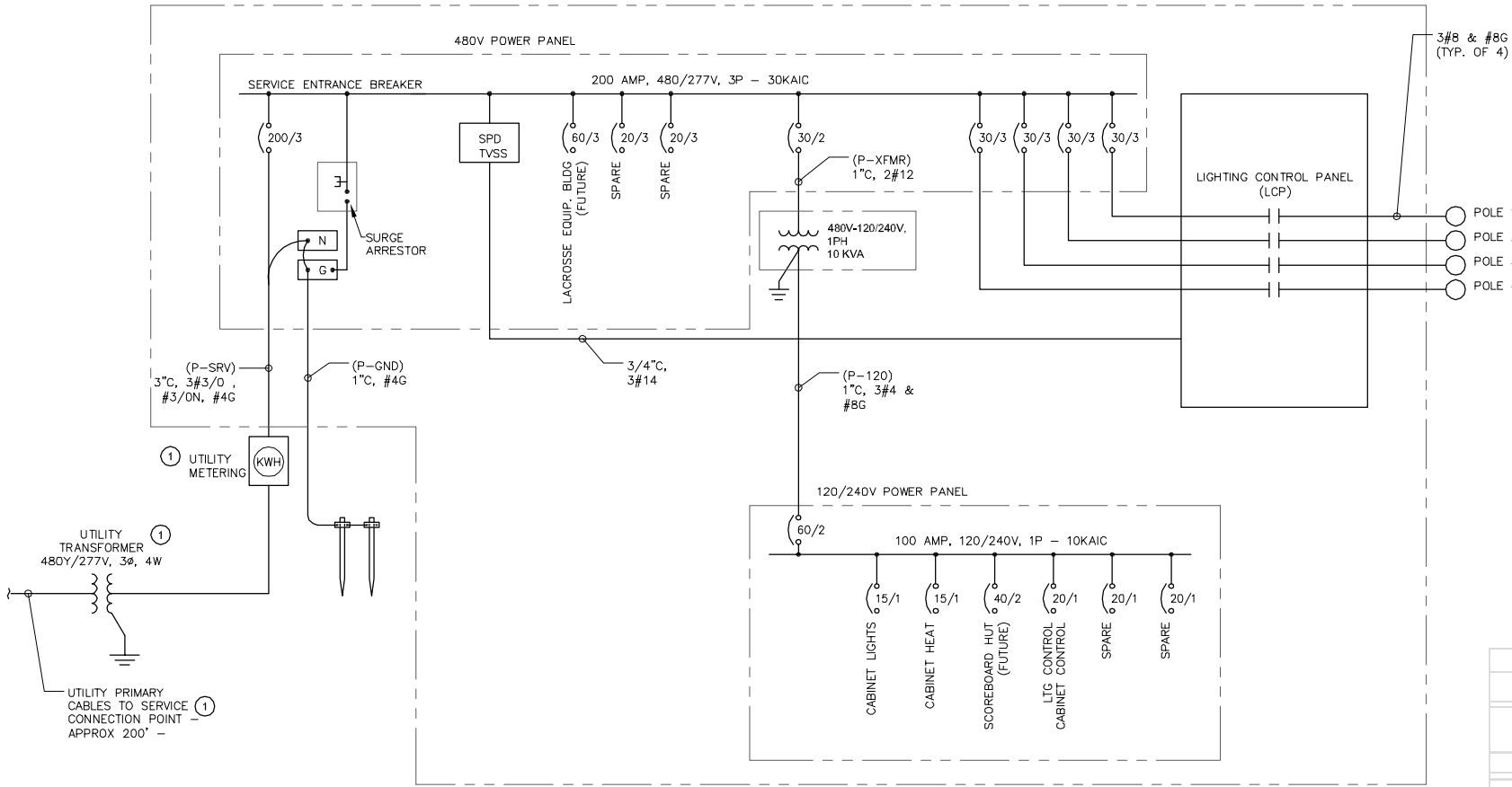
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GENERAL NOTES:

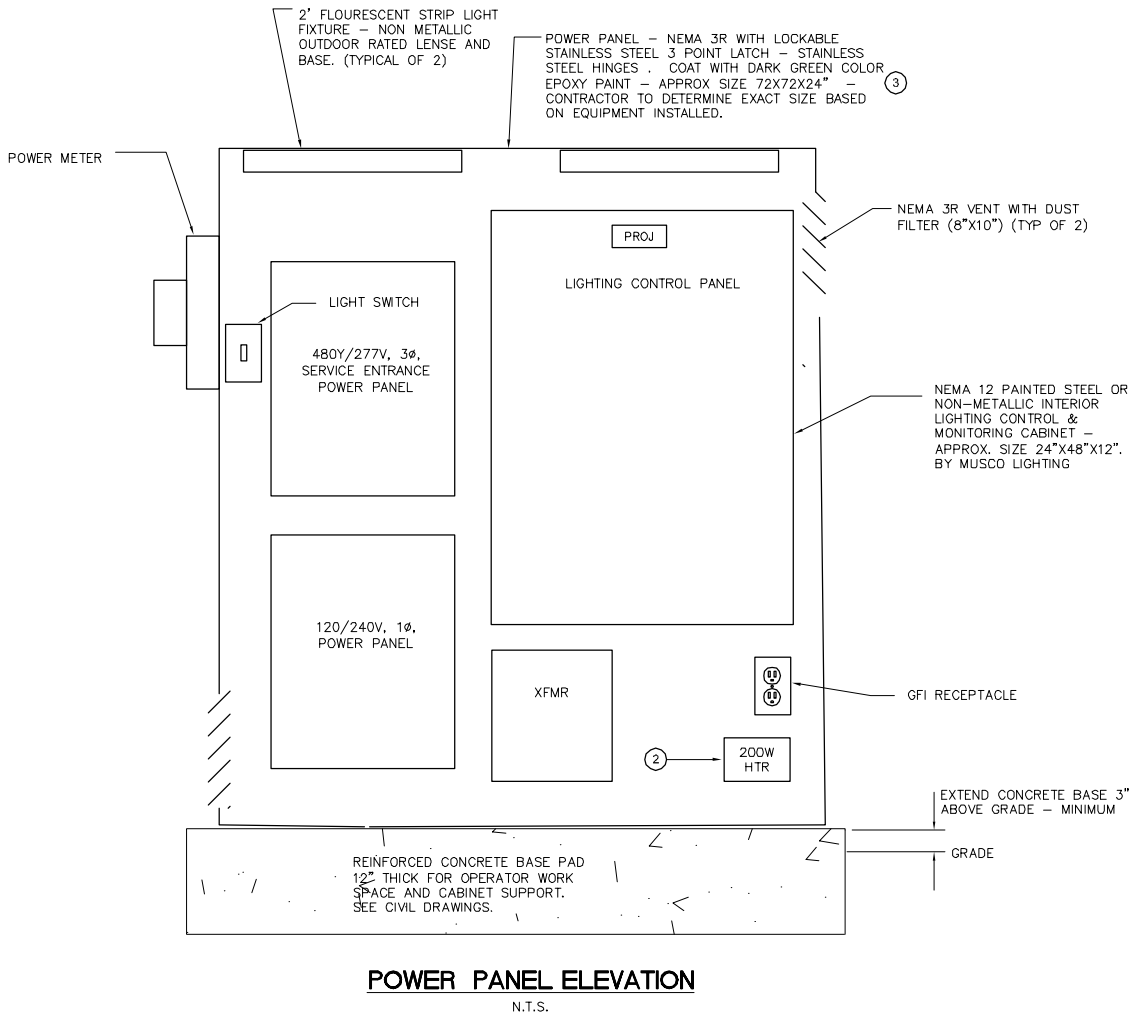
1. PROVIDE WATER SEAL ON INSIDE OF RACEWAYS FOR ALL UNDERGROUND RACEWAY PENETRATIONS. PROVIDE WATER-TIGHT SEAL AROUND OUTSIDE OF ALL CONDUIT PENETRATIONS.

NOTES:

1. UTILITY METER BASE & POWER DISCONNECT PROVIDED PER UTILITY REQUIREMENTS. VERIFY ALL UTILITY SERVICE EQUIPMENT AND INSTALLATIONS ARE ACCEPTABLE PER SERVING UTILITY.
2. ELECTRIC HEATER WITH INTEGRAL THERMOSTAT HEATER SHALL BE HOFFMAN.
3. CONTRACTOR TO SIZE CABINET FOR EQUIPMENT INSTALLED. PROVIDE WITH PAD-LOCKABLE 3-POINT LATCH. VERIFY SIZE WITH LIGHTING MANUFACTURER PRIOR TO PURCHASE AND ROUGH-IN.

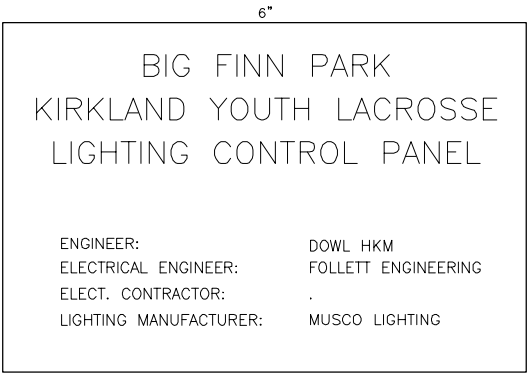
BIG FINN PARK LOADS

LOAD DESCRIPTION	NO.	KVA EACH	Total Duty KVA	PLANT LOAD	
				NO.	KVA
SCORE HUT	1	5	5	1.00	5
LACROSSE BLDG	1	15	15	1.00	15
FIELD LIGHTING	4	20	80	4.00	80
MISC	1	1	1	1.00	1
			Total Duty	DESIGN TOTAL	
KVA SUB-TOTAL			101	KVA	101
AMPS @ 480V, 3P			122	AMPS	122



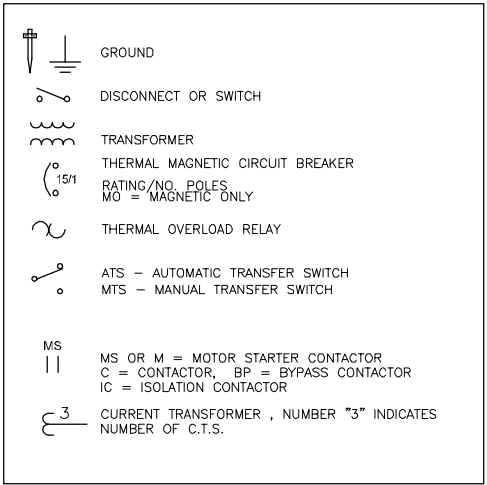
ONE-LINE DIAGRAM

N.T.S.



DETAIL - PROJECT NAMEPLATE

(MOUNT ON OUTER DOOR)



FOLLETT ENGINEERING

ELECTRICAL
ENGINEERING
&
CONSULTING
REDMOND, WA
425-836-3333

ONELINE DIAGRAM AND DETAILS
BIG FINN HILL PARK
LACROSSE AND SOCCER FIELD CONVERSION
KIRKLAND, (KING COUNTY), WA

PREPARED FOR
KIRKLAND YOUTH SPORTS DEV.

Kirkland, WA 98034
8251 NE Juanita Drive

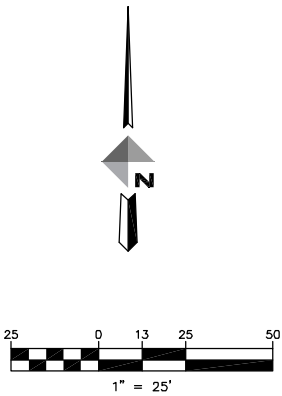
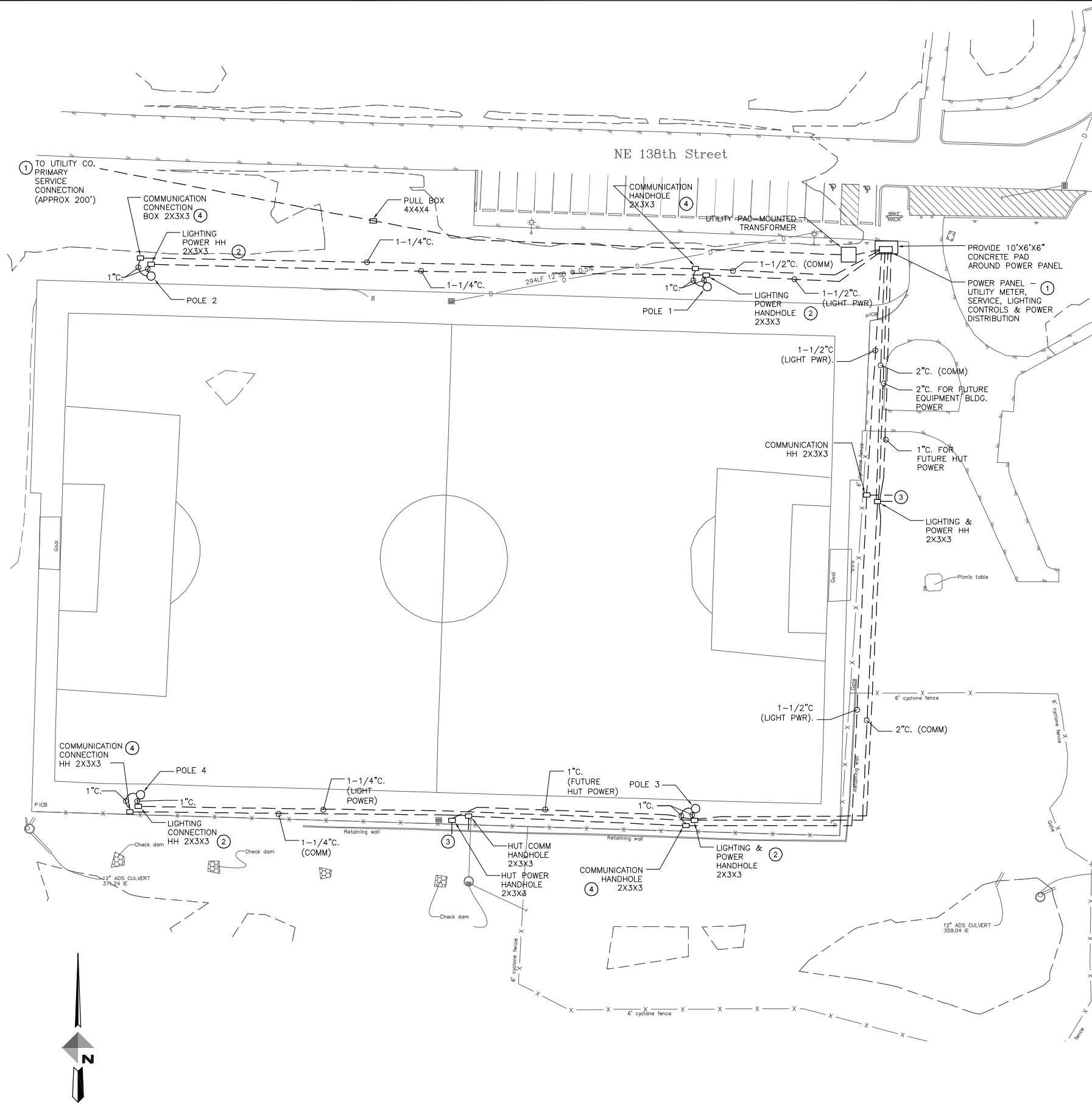


DOWL HKM
REDMOND, WA 98052
8420 154TH AVENUE NE
TEL: (425) 889-2670
FAX: (425) 889-2679

SEP 2 2011
DESIGNED
DRAWN
CHECKED
APPROVED

BY
DATE
REVISION

SCALE:
F.B.:
W.O.: 13066.01
FILE NO.:
SHEET E1



GENERAL NOTES:

1. SEE DETAIL DRAWINGS FOR EQUIPMENT AND INSTRUMENT INSTALLATIONS. INSTALL EQUIPMENT PER THE REQUIREMENTS OF THE APPLICABLE DETAIL AND PER THE EQUIPMENT MANUFACTURERS RECOMMENDATIONS.
2. PROVIDE WATER SEAL ON INSIDE OF RACEWAYS FOR ALL UNDERGROUND RACEWAY PENETRATIONS. PROVIDE WATER TIGHT SEAL AROUND OUTSIDE OF ALL CONDUIT PENETRATIONS.
3. PROVIDE GRC FOR ALL SWEEPS AND RISERS FOR TRANSITION FROM BELOW GRADE TO ABOVE GRADE RACEWAYS

NOTES:

- ① PRIMARY RACEWAY AND CABLE, TRANSFORMER, UTILITY METER BASE & SERVICE EQUIPMENT TO BE PROVIDED PER UTILITY REQUIREMENTS. VERIFY ALL UTILITY SERVICE EQUIPMENT AND INSTALLATIONS ARE ACCEPTABLE PER SERVING UTILITY. COORDINATION SHALL BE DONE WITH PSE, 425-956-7736. COORDINATE EXACT LOCATION OF ALL EQUIPMENT WITH PARKS DEPARTMENT PRIOR TO INSTALLATION.
- ② PROVIDE HANDHOLE/CONNECTION BOX FOR ALL FIELD LIGHTING – ONE FOR POWER AND ONE FOR COMMUNICATIONS AT EACH POLE LOCATION. PROVIDE AS REQUIRED PER LIGHTING MANUFACTURER.
- ③ STUB UP CONDUIT OUT OF HANDHOLES – ONE FOR POWER AND ONE FOR COMMUNICATIONS FOR FUTURE EQUIPMENT BUILDING AND SCOREKEEPER’S HUT. VERIFY EXACT LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
- ④ STUB UP AND CAP 1" COMMUNICATIONS CONDUIT, ONE AT EACH OF THE LIGHT POLES FOR FUTURE COMMUNICATION EQUIPMENT AND (CAMERAS).

**FOLLETT
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ENGINEERING
&
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425-836-3333

SEP 2 2011		DESIGNED	BY	DATE
TMH		DRAWN	TMH	REVISION
VNF		CHECKED	VNF	
APPROVED				

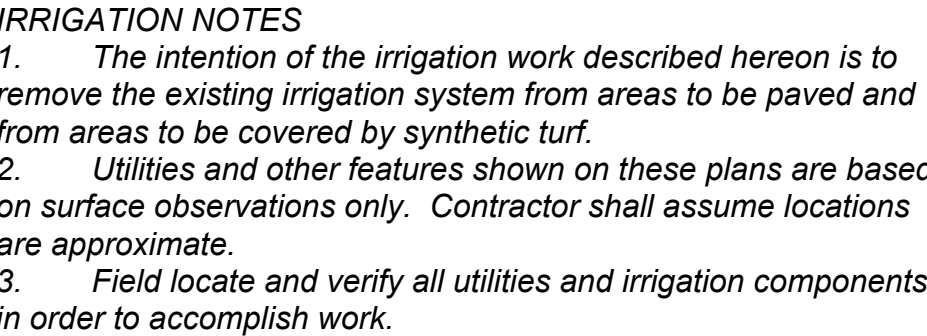
DOWL HKM
REDMOND, WA 98052
8420 154TH AVENUE NE
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FAX: (425) 888-2879

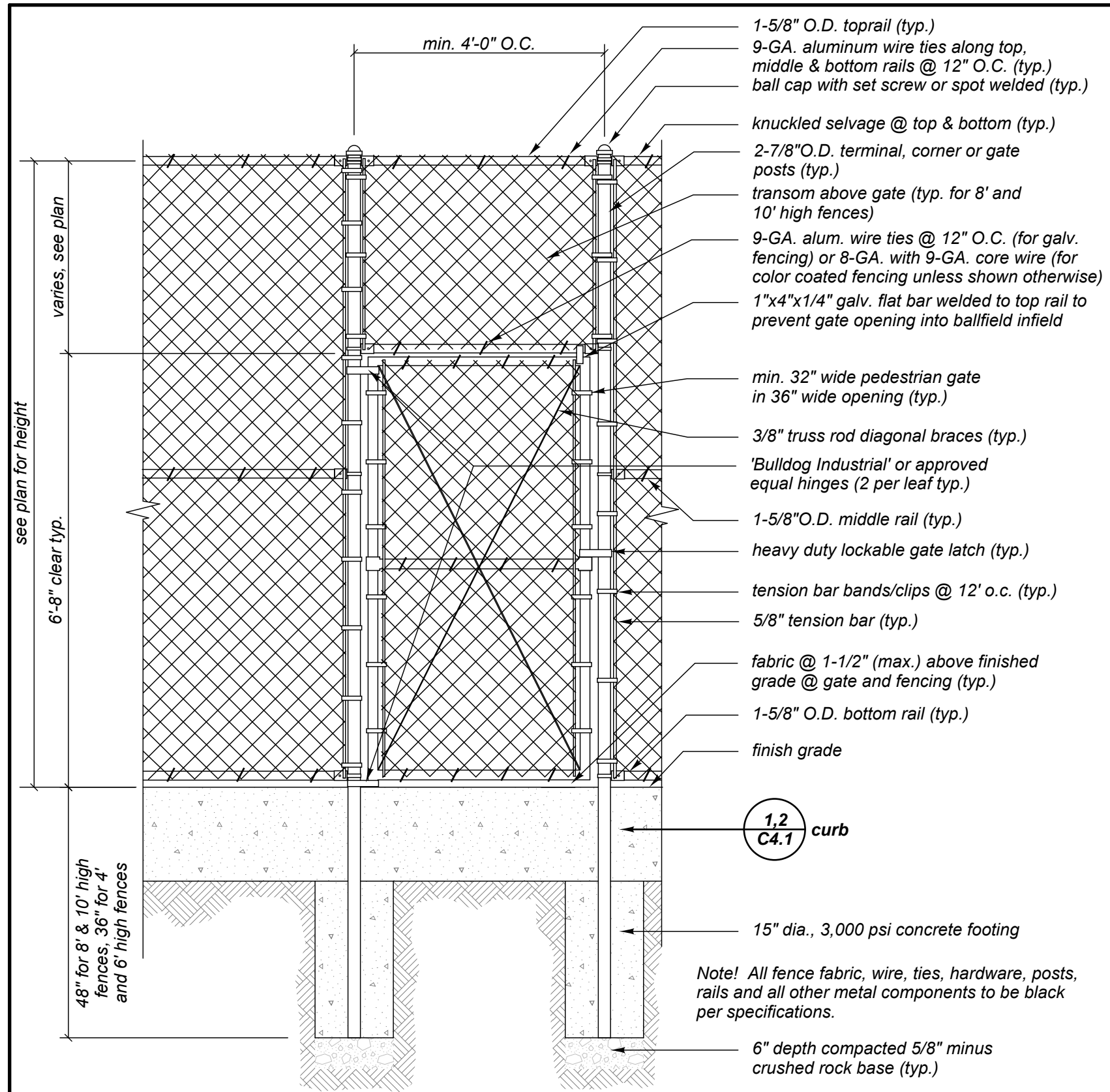
VINCENT M. FOLLETT
REGISTERED PROFESSIONAL ENGINEER
28947
9-10-11

PREPARED FOR
KIRKLAND YOUTH SPORTS DEV.
Kirkland, WA 98034
8251 NE Juanita Drive

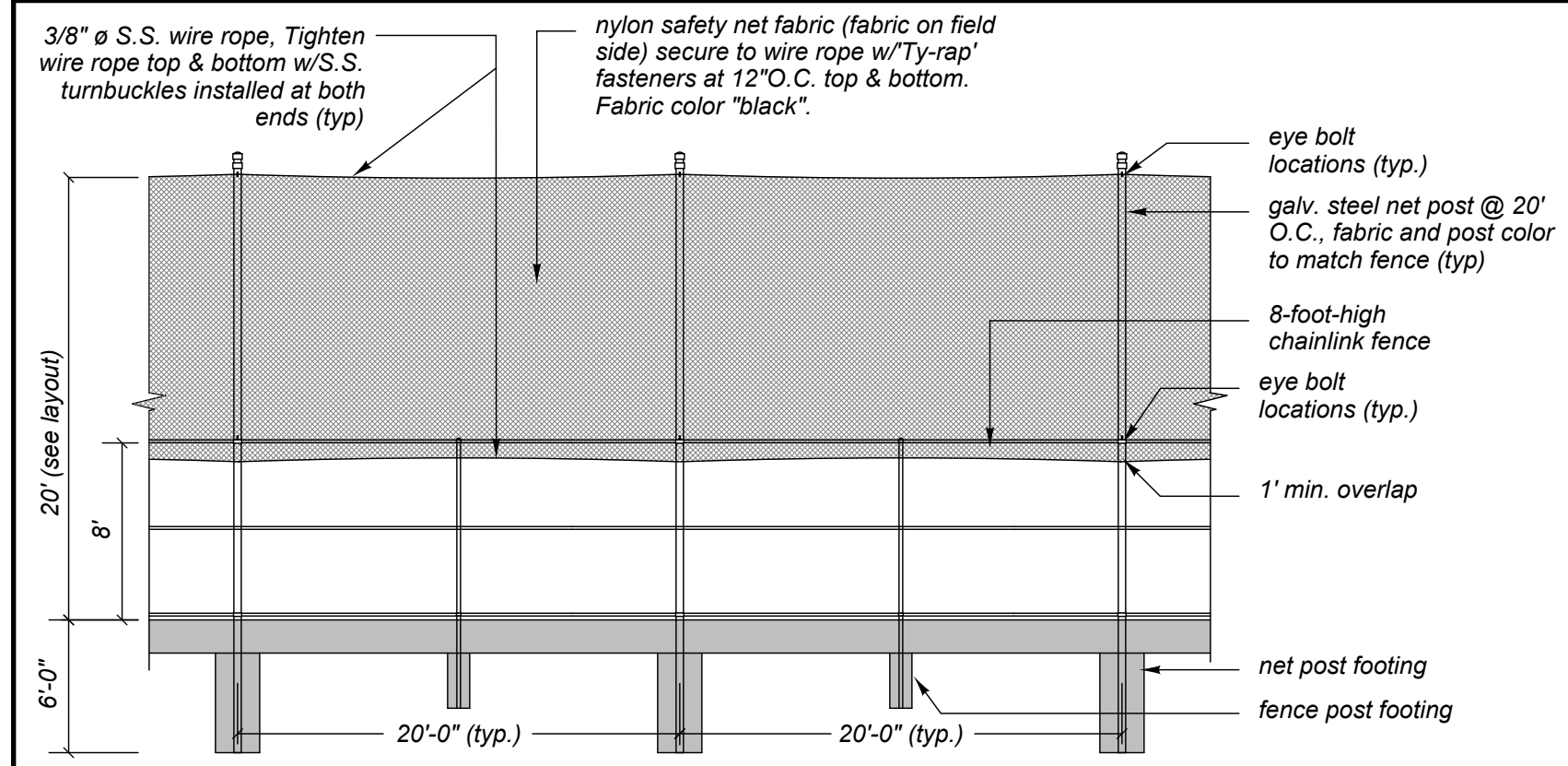
ELECTRICAL SITE PLAN
BIG FINN HILL PARK
LACROSSE AND SOCCER FIELD CONVERSION
KIRKLAND, (KING COUNTY), WA

SCALE:	
F.B.:	
W.O.:	13066.01
FILE NO.:	SHEET 12

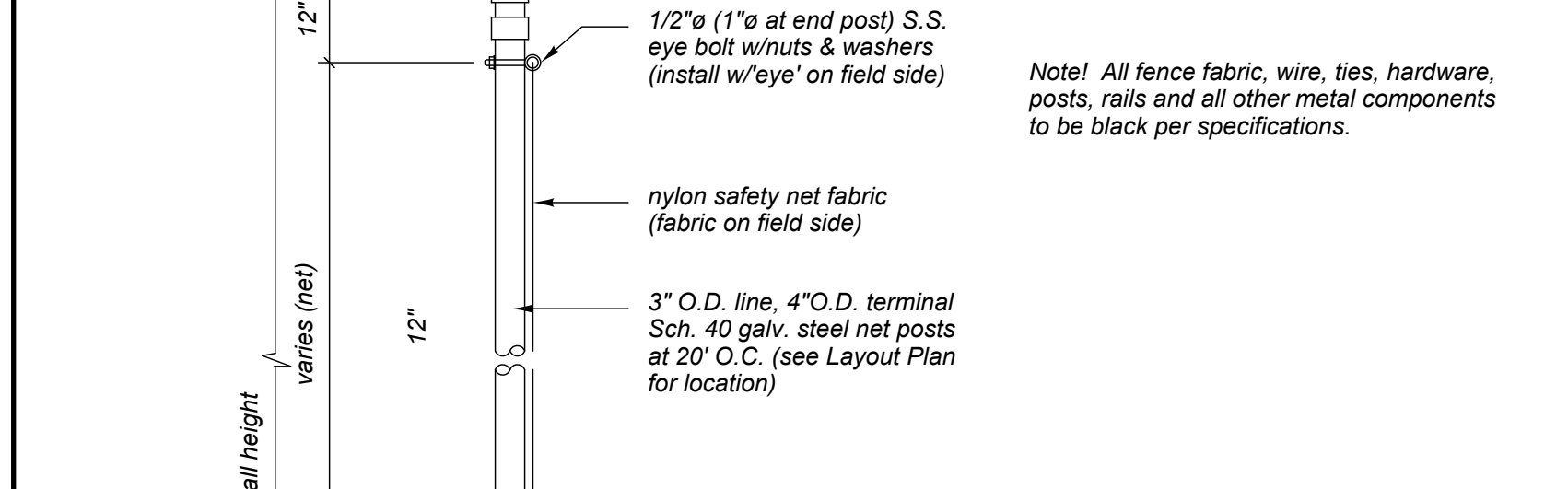
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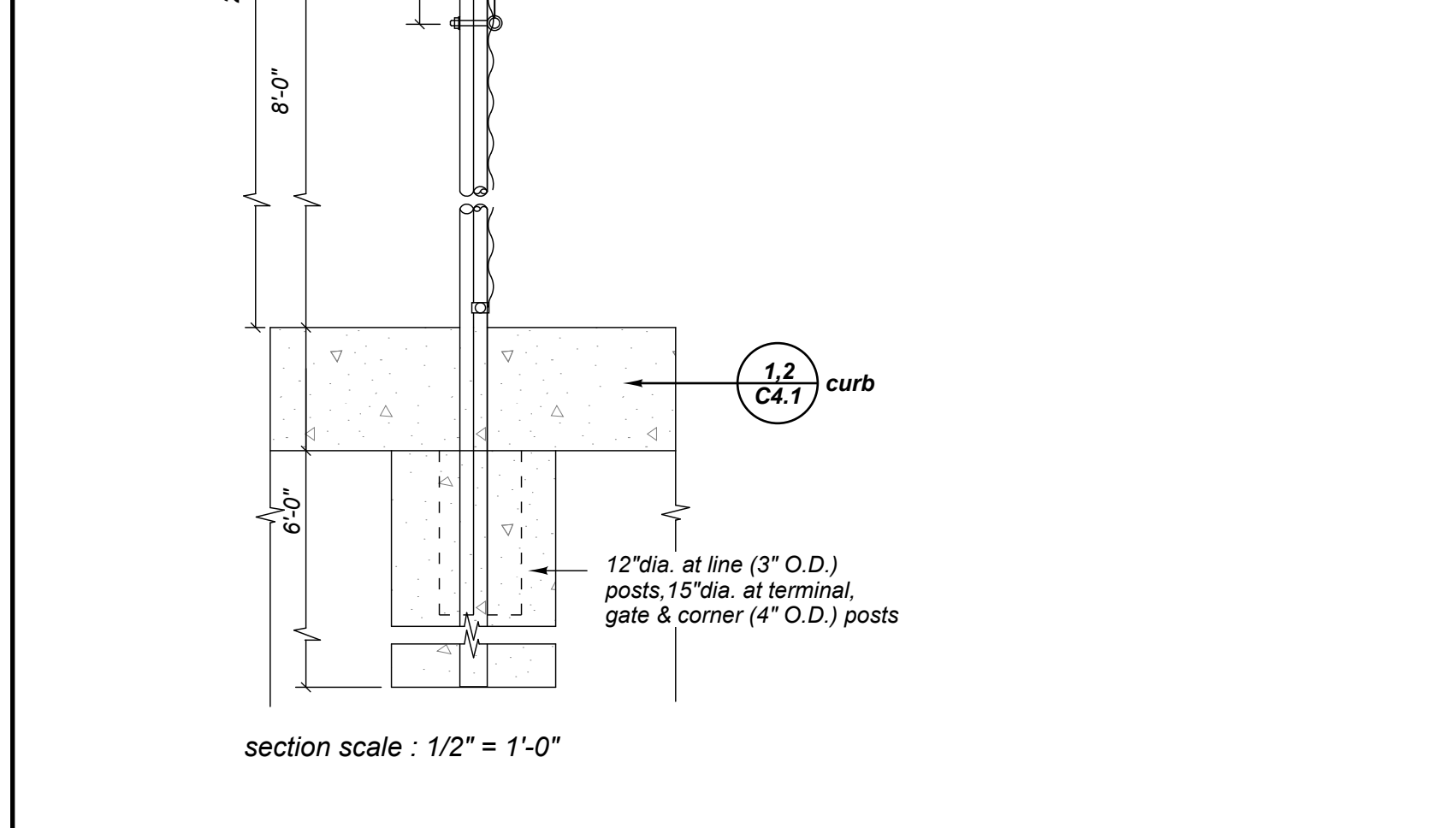
A Chainlink Pedestrian Gate scale: 1/2" = 1'-0"



B Four-foot High Chainlink Fence scale: 3/4" = 1'-0"



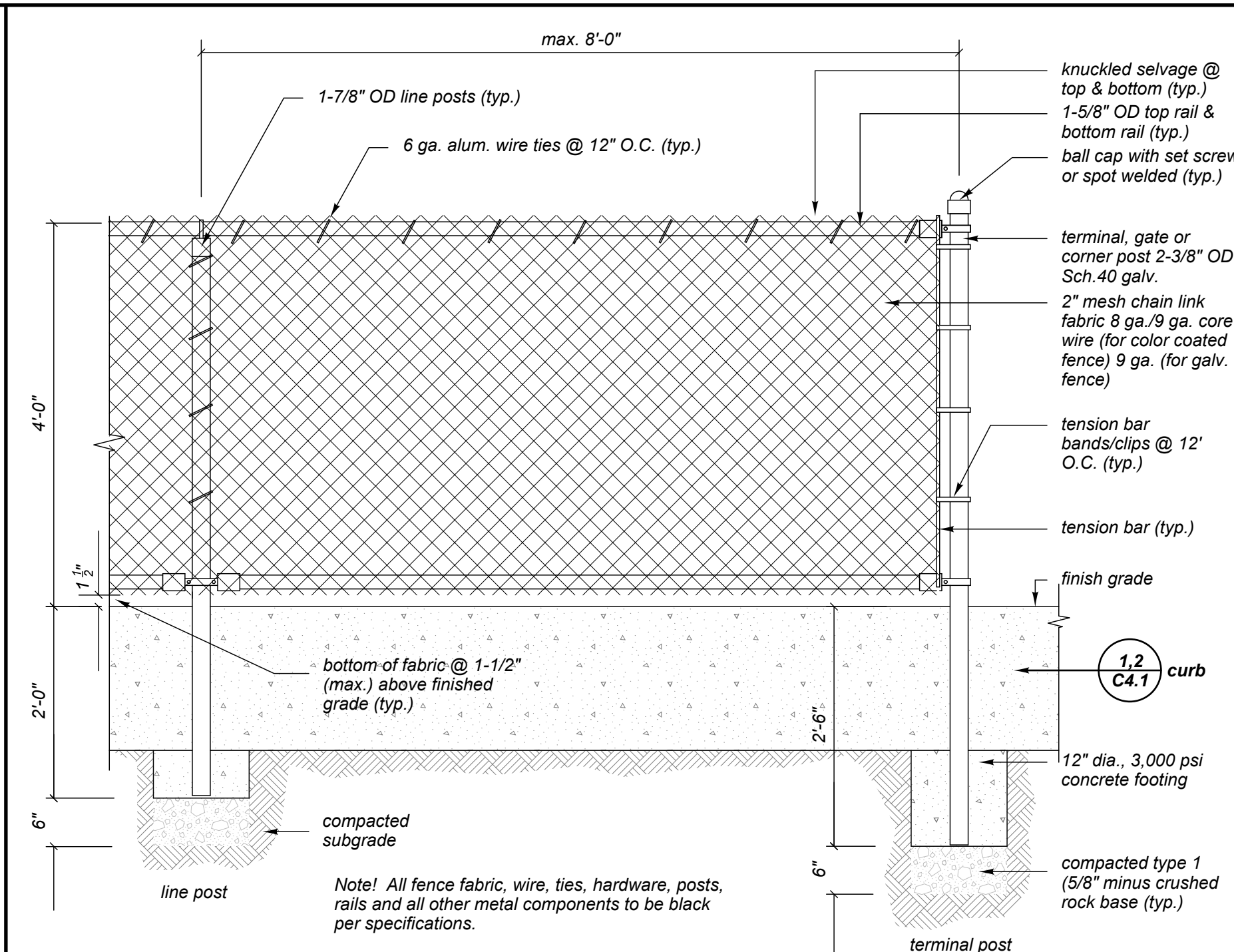
C Chainlink Fence scale: 1/2" = 1'-0"



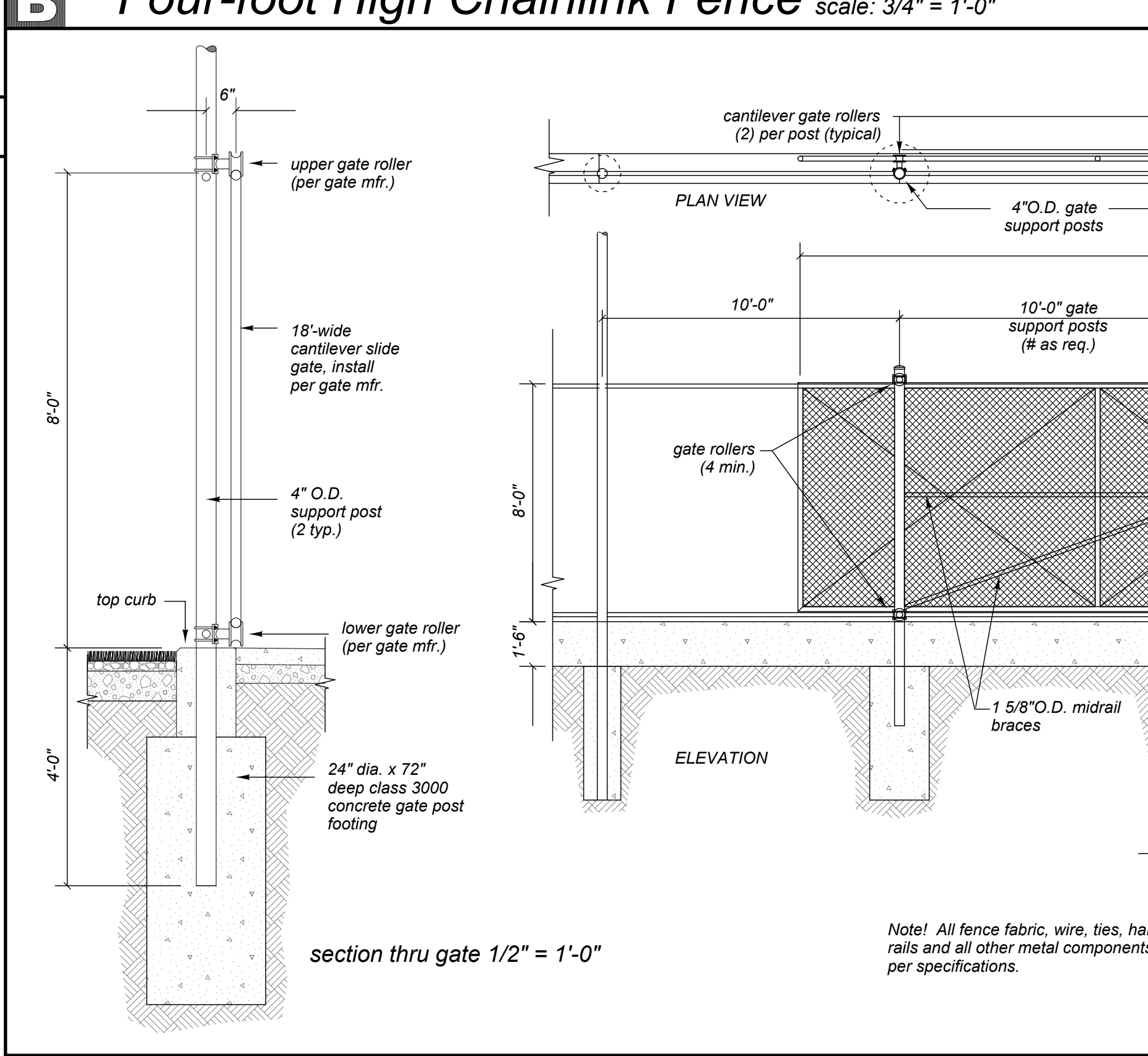
D Conc. Curb scale: 1" = 1'-0"



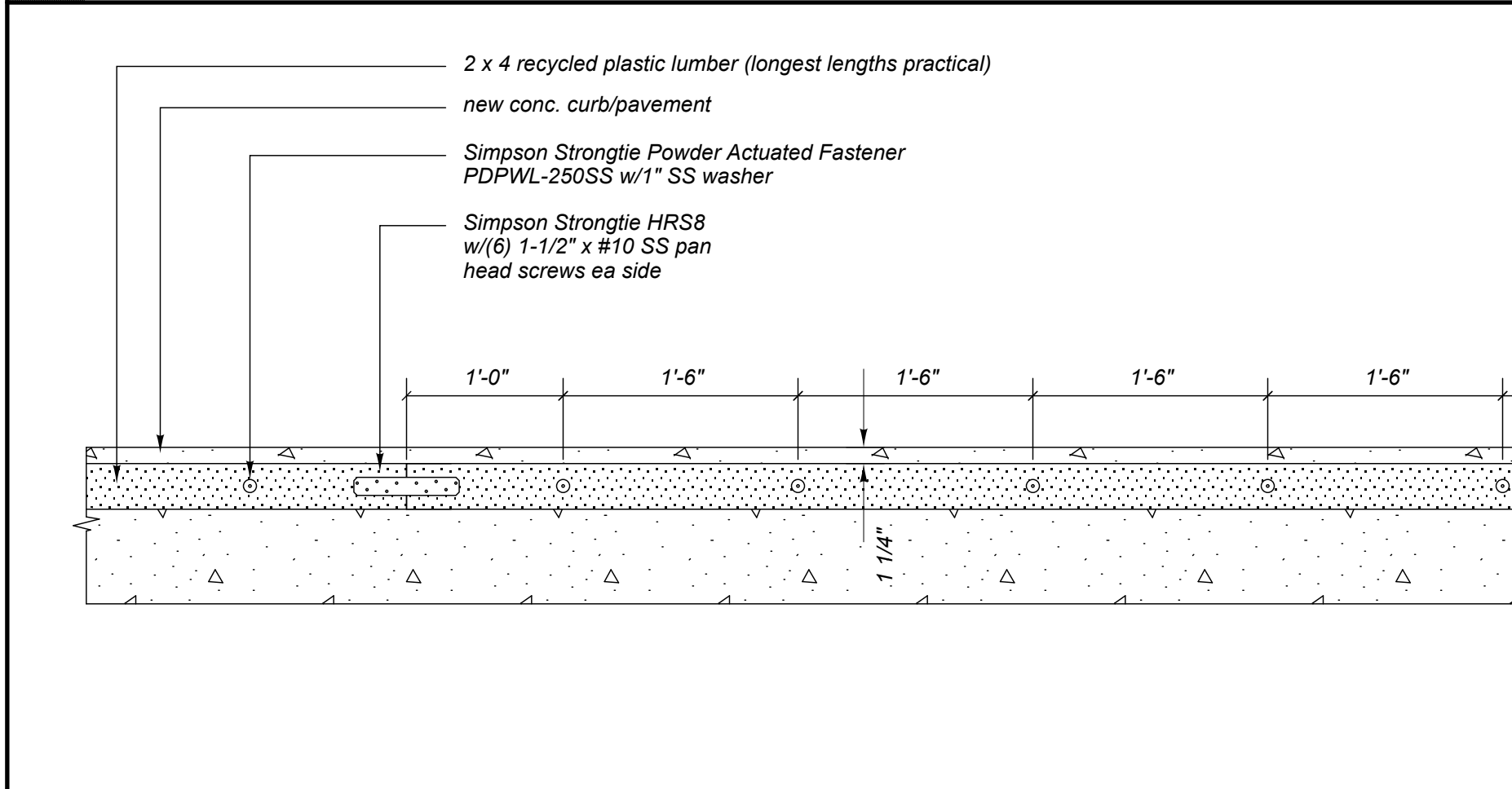
E Mesh Barrier on Fence scale: 1/8" = 1'-0"



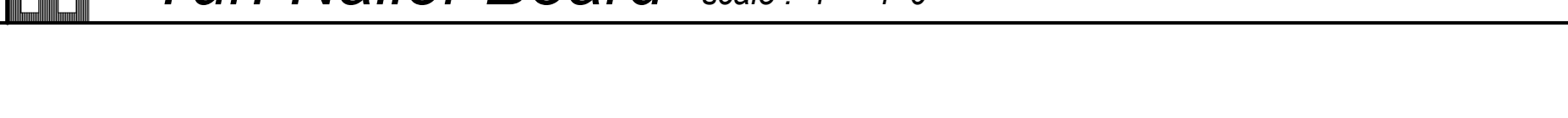
F Cantilever Slide Gate scale as shown



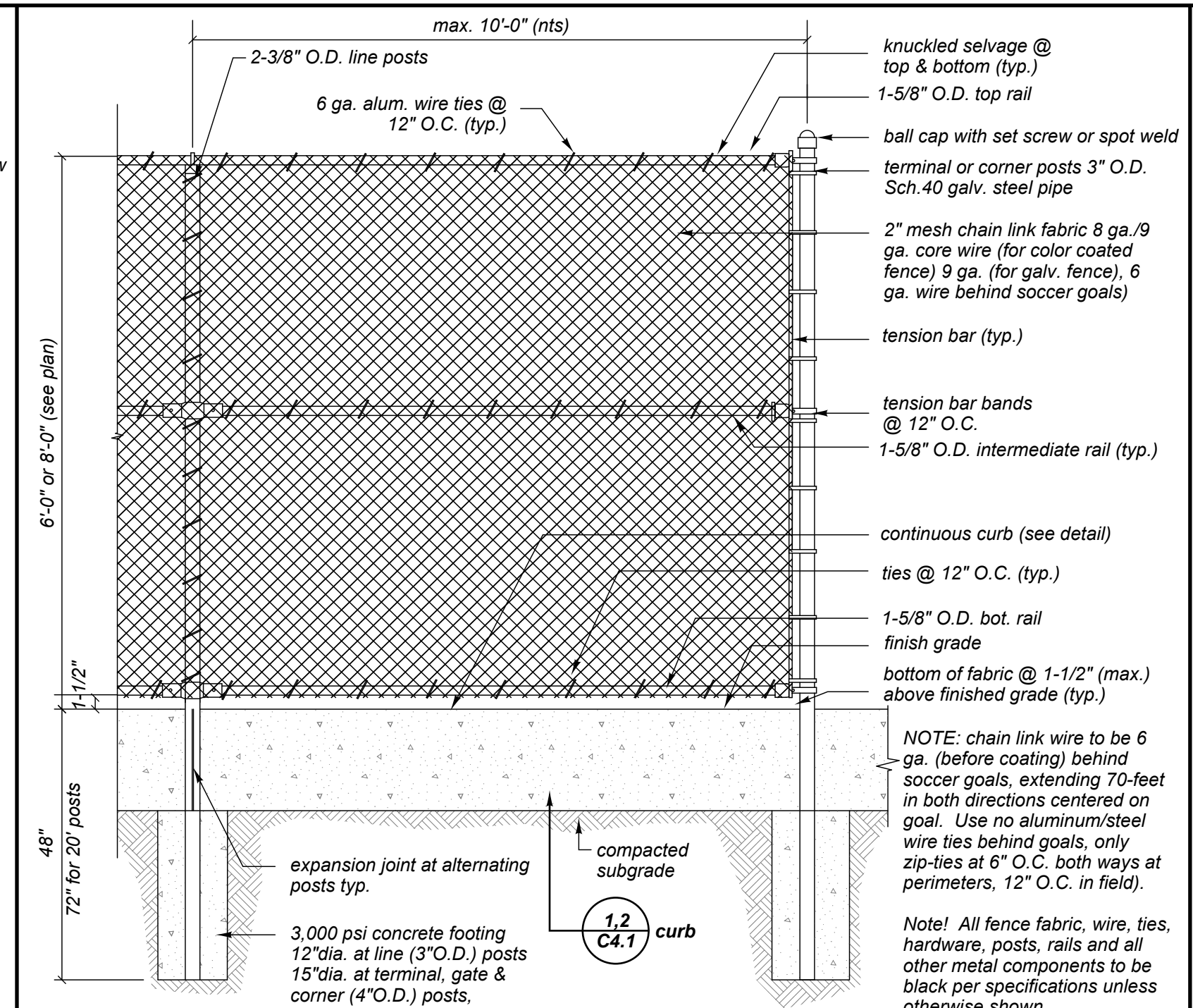
G Quick Coupler Assy no scale



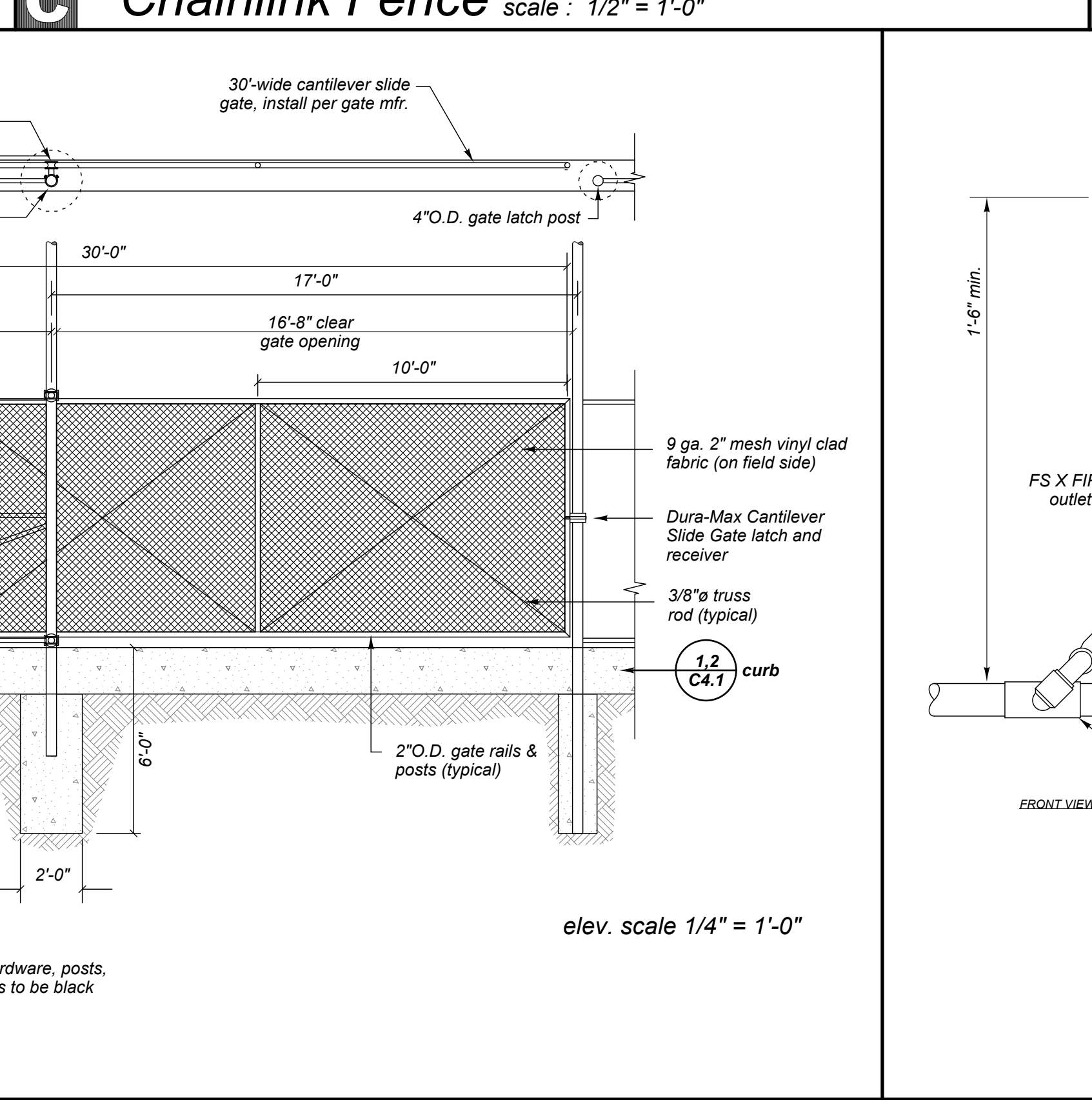
H Turf Nailer Board scale: 1" = 1'-0"



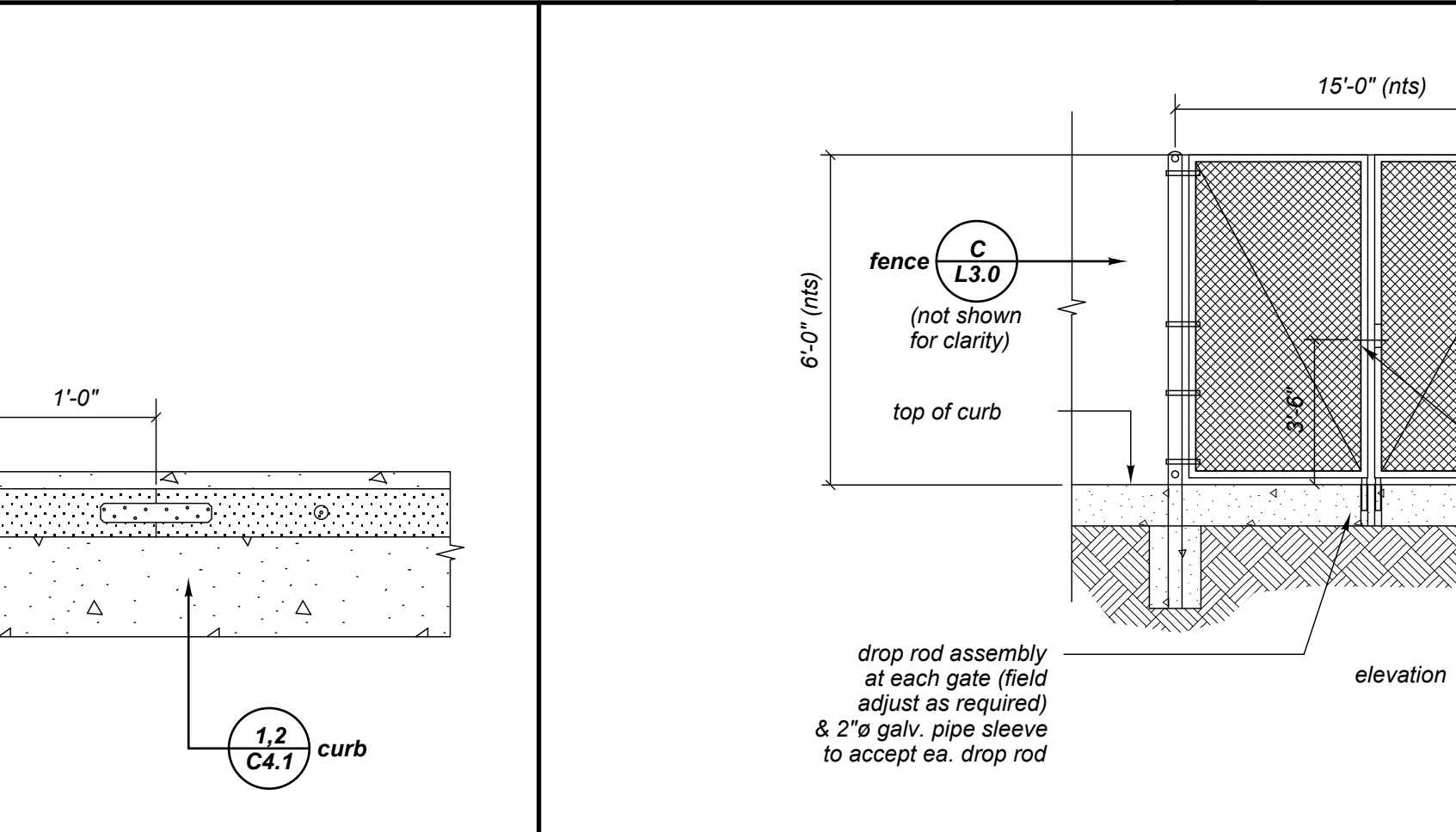
I Double Gate scale: 1/4" = 1'-0"



J Double Gate scale: 1/4" = 1'-0"



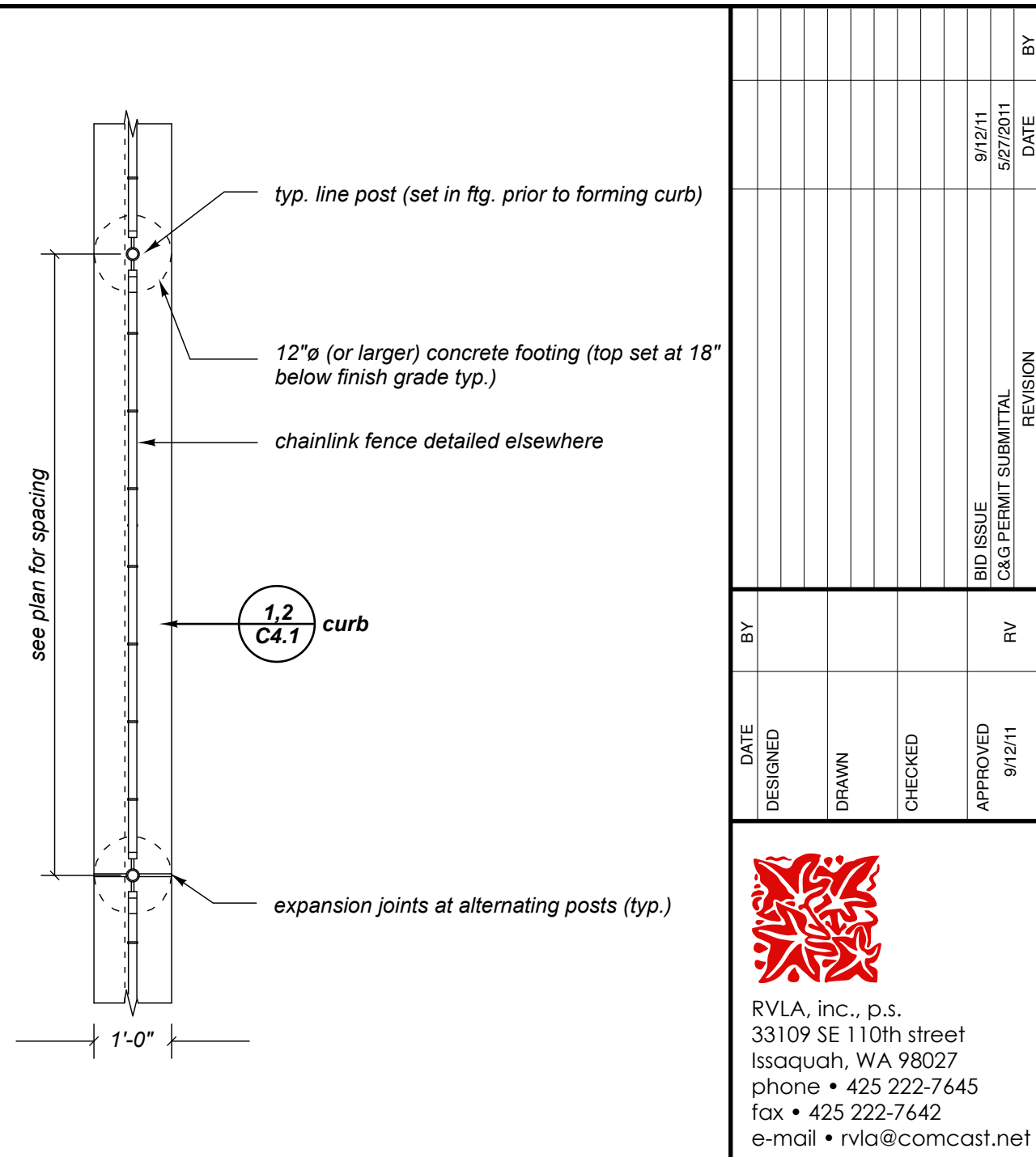
K Double Gate scale: 1/4" = 1'-0"



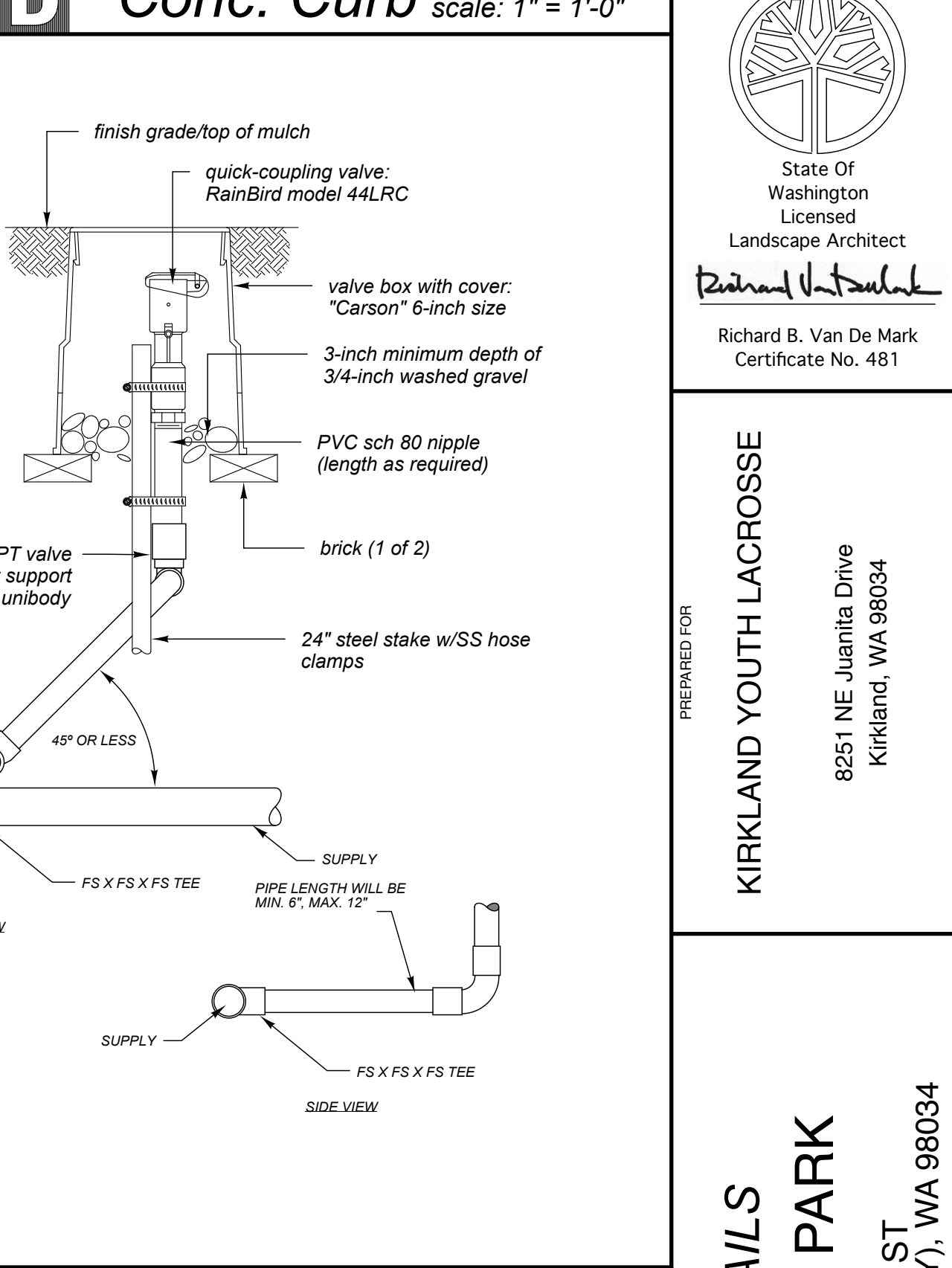
L Double Gate scale: 1/4" = 1'-0"



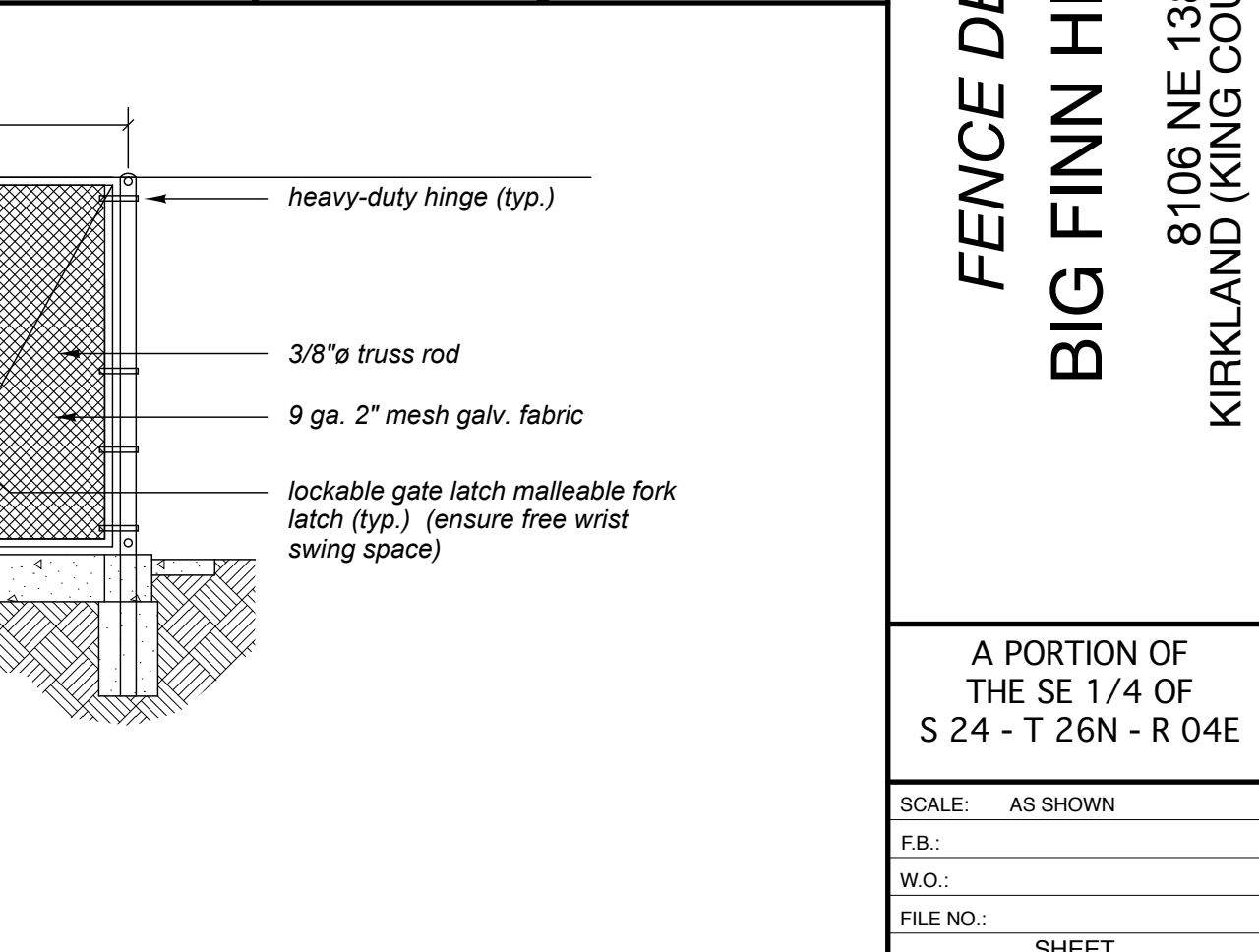
M Double Gate scale: 1/4" = 1'-0"



N Double Gate scale: 1/4" = 1'-0"



O Double Gate scale: 1/4" = 1'-0"



P Double Gate scale: 1/4" = 1'-0"



Q Double Gate scale: 1/4" = 1'-0"

DATE	DESIGNED	DRAWN	CHECKED	APPROVED	9/12/11	5/27/2011	DATE
BY							BY

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Issaquah, WA 98027
phone • 425 222-7645
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e-mail • rvla@comcast.net

State Of Washington
Licensed
Landscape Architect
Richard B. Van De Mark
Richard B. Van De Mark
Certificate No. 481

KIRKLAND YOUTH LACROSSE
PREPARED FOR
8251 NE Juanita Drive
Kirkland, WA 98034

FENCE DETAILS
BIG FINN HILL PARK
8106 NE 138TH ST.
KIRKLAND (KING COUNTY), WA 98034

SCALE:	AS SHOWN
FB:	
WD:	
FILE NO.:	SHEET

L3.0